Answer Key
(Step-By-Step Mathematics 1)

Unit 1 Numbers To 10

Drills

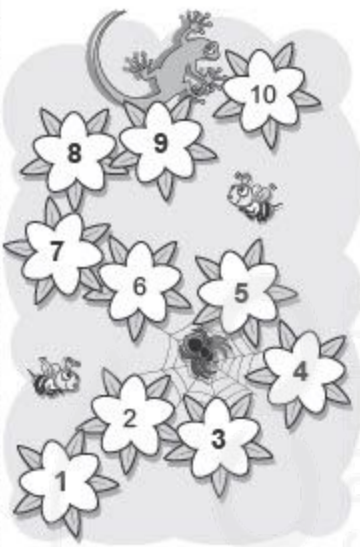
Exercise 1

No.	Numerals	Words
1.	7	Seven
2.	6	Six
3.	10	Ten
4.	5	Five
5.	3	Three
6.	8	Eight
7.	2	Two
8.	1	One
9.	9	Nine

Exercise 2

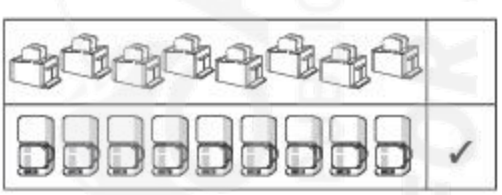
No.	Sets of items	Numbers
1.		7
2.		2
3.		5
4.		10
5.		6
6.		8
7.		3
8.		4
9.		9
10.		1

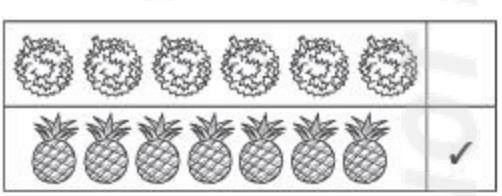
Exercise 3

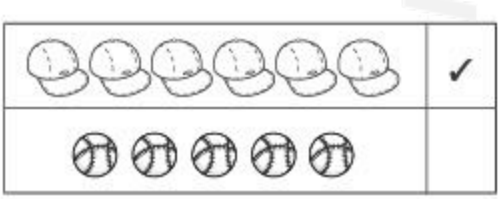


Perform

Exercise 1

1. 

2. 

3. 

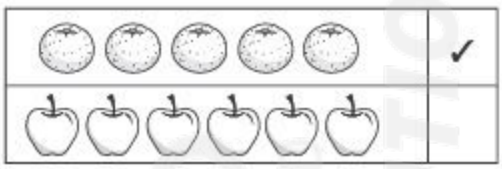
4. 1 more than 8 is **9**.

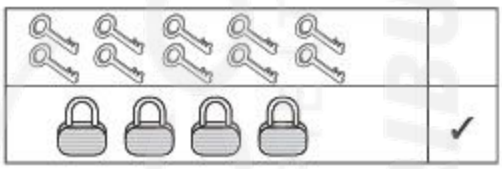
5. 2 more than 3 is **5**.

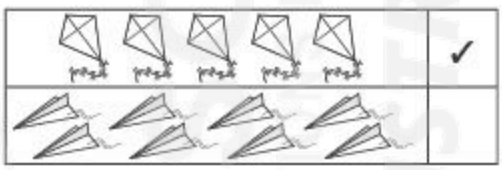
6. 4 more than 2 is **6**.

7. 5 more than 5 is **10**.

Exercise 2

1. 

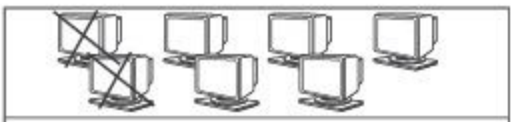
2. 

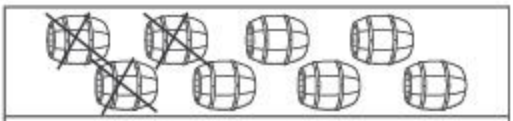
3. 

4. 

5. 
1 less than 9 is **8**.

6. 
2 less than 6 is **4**.

7. 
2 less than 7 is **5**.

8. 
3 less than 8 is **5**.

Exercise 3

1. (4)
2. (3)
3. (1)
4. (3)
5. (2)
6. (3)
7. (3)

Achieve

Exercise 1

1. (a) 2, 4, 5, 8

   (b) 1, 3, 6, 9

   (c) 0, 5, 7, 10

2. (a) 9, 6, 2, 1

   (b) 8, 7, 5, 4

   (c) 9, 6, 3, 2

Exercise 2

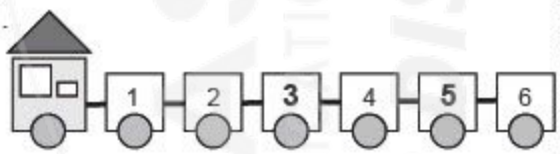
1. 9
2. 7
3. 5
4. 4
5. 9
6. 9, 7, 5, 4, 1

Exercise 3

1. (3) 2. (2)
3. (4)

Exercise 4

1.



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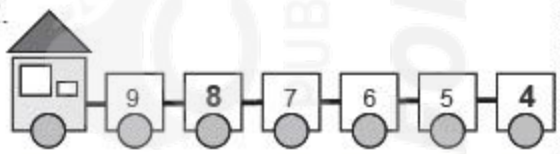
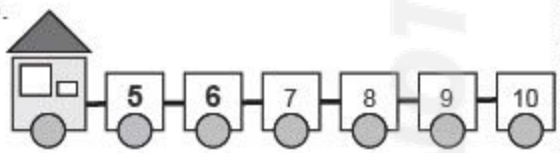
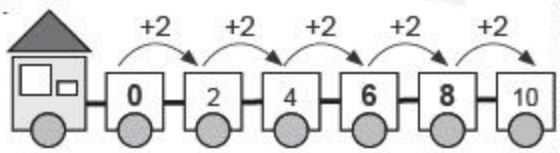


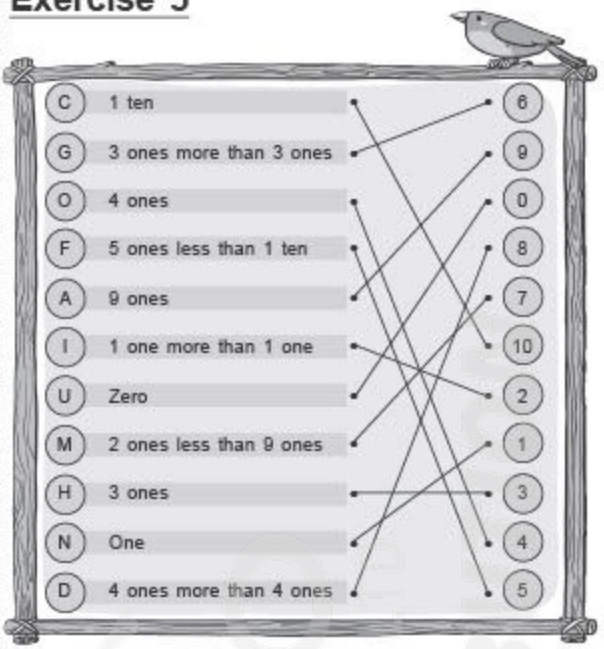
3.



4.



Exercise 5



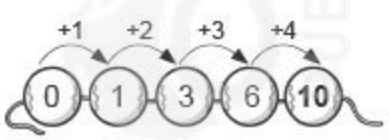
F	U	N		C	O	U	N	T	I	N	G
5	0	1		10	4	0	1		2	1	6

A	N	D		M	A	T	C	H	I	N	G	!
9	1	8		7	9		10	3	2	1	6	

Challenge

Exercise 1

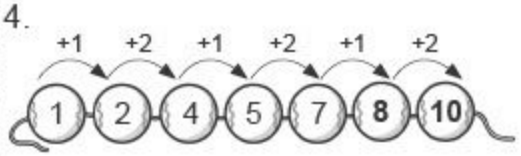
1.



2.

3.

4.



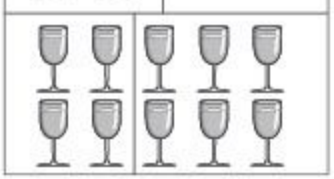
Unit 2 Number Bonds

Drills

Exercise 1

1. 7, 1 → 8
2. 4, 3 → 7
3. **5**, 5 → 10
4. 5, **2** → 7

Exercise 2

1. 
2. 
3. 
4. 

Perform

Exercise 1

1. **3**, **6** → **9**
   3 and **6** make **9**.
   3 + **6** = 9
2. **3**, **4** → **7**
   3 and **4** make **7**.
   3 + **4** = 7
3. **6**, **2** → **8**
   6 and **2** make **8**.
   6 + **2** = 8

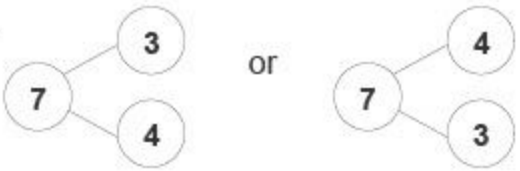
Exercise 2

1. (3)
2. (4)
3. (4)
4. (2)
5. (1)
6. (1)

Exercise 3

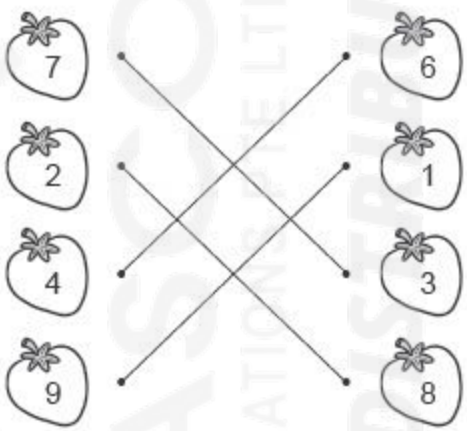
1. 3, 8, **5**
2. 5, 5, **0**
3. 2, **6**, 4
4. 3, **6**, 9
5. 10, 5, **5**
6. 4, **8**, 4

Exercise 4

1. 

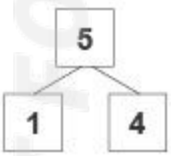
2. 

2 + 6 = 8

3. 

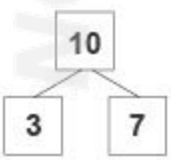
Achieve

1. 5 – 1 = 4



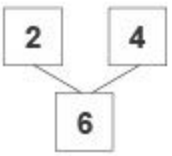
He had **4** pieces of cake left.

2. 10 – 3 = 7



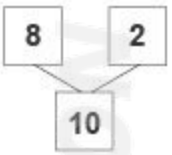
She had **7** cupcakes left.

3. 2 + 4 = 6



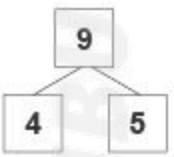
He made **6** cups of ice-cream altogether.

4. 8 + 2 = 10



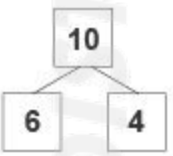
Henry blew **10** balloons.

5. 9 – 4 = 5



There are **5** rectangular stickers.

6. 10 – 6 = 4

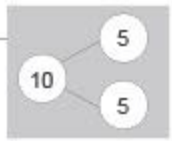


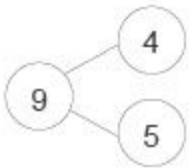
Xiang Hai collected **4** stamps.

Challenge

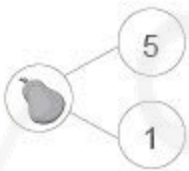
Exercise 1

1.  stands for **5**.



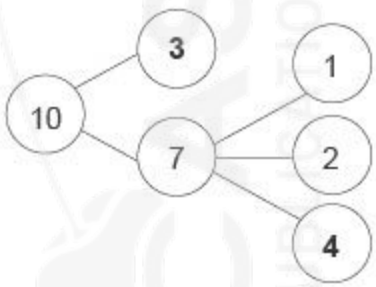
2. 

 = 5



 = 6

 stands for **6**.

3. 

Unit 3 Addition And Subtraction Within 10

Drills

Exercise 1

1. 4 + 1 = 5
2. 6 + 2 = 8
3. 5 + 4 = 9
4. 4 + 6 = 10
5. 6 + 3 = 9
6. 5 + 3 = 8
7. 6 + 1 = 7
8. 6 + 2 = 8

Exercise 2

1. 10 – 3 = 7
2. 9 – 5 = 4
3. 3 – 1 = 2
4. 6 – 3 = 3
5. 7 – 6 = 1
6. 8 – 4 = 4
7. 10 – 8 = 2
8. 3 – 2 = 1

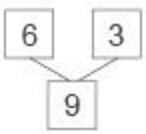
9. 5 – 4 = 1

10. 7 – 3 = 4

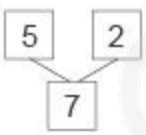
Perform

Exercise 1

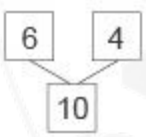
1. 6 + 3 = 9 or 3 + 6 = 9
   9 – 3 = 6 or 9 – 6 = 3



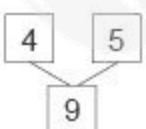
2. 5 + 2 = 7 or 2 + 5 = 7
   7 – 2 = 5 or 7 – 5 = 2



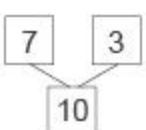
3. 6 + 4 = 10 or 4 + 6 = 10
   10 – 4 = 6 or 10 – 6 = 4



4. 4 + 5 = 9 or 5 + 4 = 9
   9 – 5 = 4 or 9 – 4 = 5



5. 7 + 3 = 10 or 3 + 7 = 10
   10 – 3 = 7 or 10 – 7 = 3



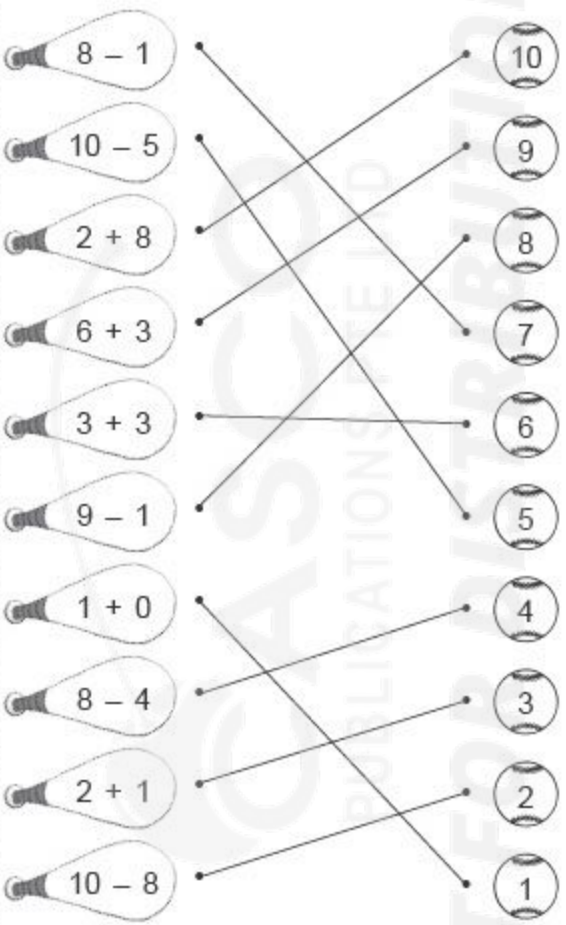
Exercise 2

1. (4) 2. (2)

3. (1) 4. (2)

5. (3) 6. (4)

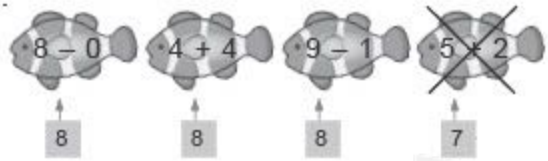
Exercise 3



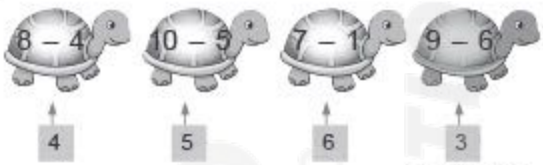
Achieve

Exercise 1

1.

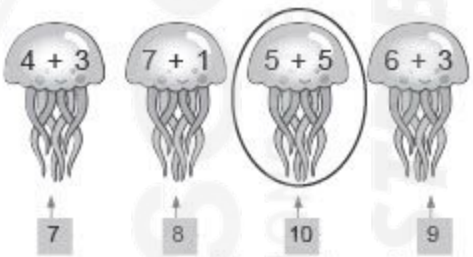


2.



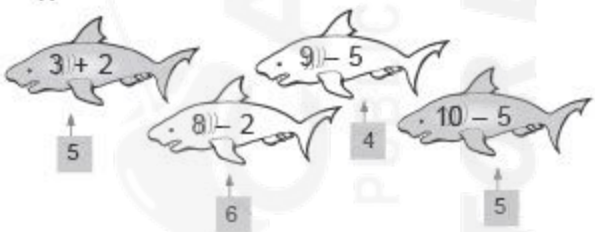
(Smallest difference)

3.



(Greatest sum)

4.



Exercise 2

1. (a) 10 (−) 10 = 0

   (b) 6 (+) 3 = 9

   (c) 4 (+) 2 = 7 (−) 1

2. (a) [5] – 2 = 3

   (b) 4 + [4] = 8

   (c) [6] – 5 = 1

   (d) 3 + [7] = 10

3. [10] (−) [7] = 3

   [8] (−) [5] = 3

Exercise 3

1. [5] (+) [3] = [8]

   Leslie collects **8** stickers.

2. [9] (−) [3] = [6]

   There are **6** children left on the bus.

3. [7] (+) [3] = [10]

   Aunt Susan sewed **10** dresses and skirts altogether.

4. [5] (−) [2] = [3]

   Raymond had **3** pencils left.

5. [4] (+) [2] = [6]

   They sold **6** clocks in all.

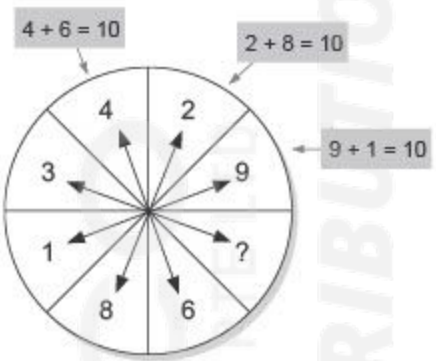
6. 10 – 5 = 5

There are **5** fewer boys than girls in the class.

Challenge

Exercise 1

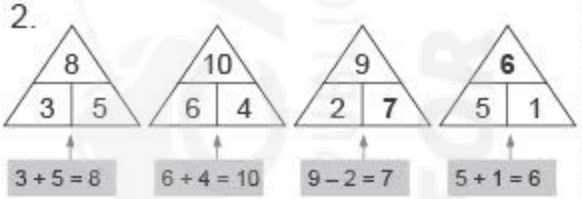
1.



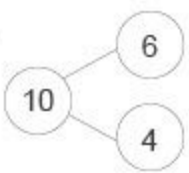
10 – 3 = 7

The missing number is **7**.

2.



3.



6 + 4 = 10
6 – 4 = 2

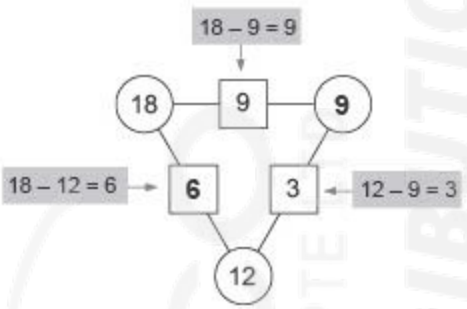
☆ = 6 and ☼ = 4.

4. Work backwards.

5
+3
8
–2
6

I am thinking of the number **6**.

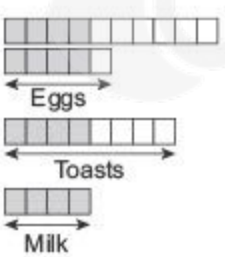
5.



6.

2	+	3	=	5
3	+	2	=	5
5	–	2	=	3
5	–	3	=	2

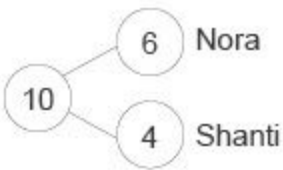
7.



4 people at least had all three items for breakfast.

8. $8 - 3 = 5$
There are 5 apples.
$\therefore 5 - 3 = 2$
There are **2** more apples than oranges in the basket.

9.



$6 + 4 = 10$
$6 - 4 = 2$

Shanti collected **4** stickers.

10. $5 - 3 = 2$
Marcus bought 2 marbles.
$\therefore 5 + 2 = 7$
They bought **7** marbles altogether.

11. $\$9 - \$2 = \$7$
Michael and Janet saved $7 altogether.

$\$4 + \$3 = \$7$
$\$4 - \$3 = \$1$

Michael saved **$4**.

Unit 4 Shapes

Drills

Exercise 1

1.

Square	Rectangle	Triangle	Circle	Half circle	Quarter circle
C	A	B	D	E	F

Exercise 2

1. Triangle
2. Circle
3. Circle
4. Square
5. Circle
6. Rectangle
7. Square
8. Triangle

Perform

Exercise 1

1.

Square	Circle	Rectangle	Triangle
3	2	1	2

2.

Square	Circle	Rectangle	Triangle
4	8	2	1

3.

Square	Circle	Rectangle	Triangle
0	11	1	2

4.

Square	Circle	Rectangle	Triangle
0	5	4	2

5.

Triangle	Half circle	Quarter circle
3	3	2

6.

Circle	Rectangle	Triangle	Half circle
3	4	3	2

7.

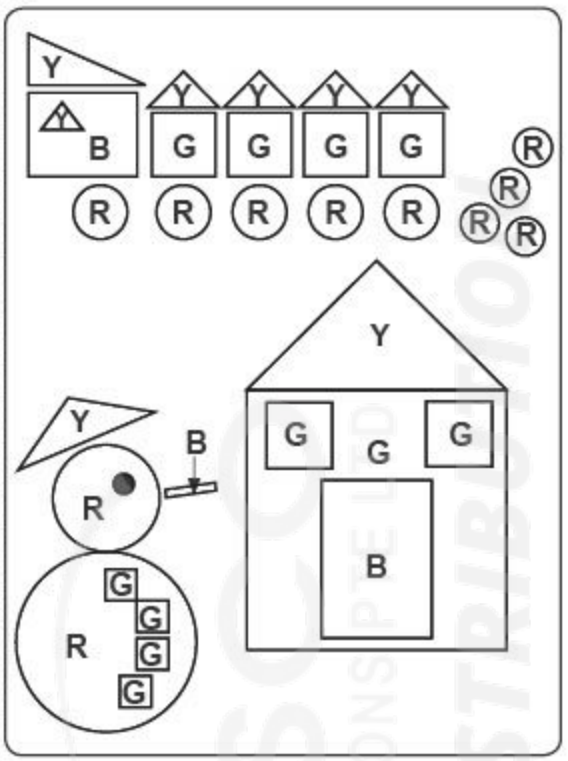
Circle	Rectangle	Half circle	Quarter circle
4	2	5	2

8.

Triangle	Square	Quarter circle	Half circle
2	4	4	2

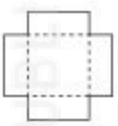
Exercise 2

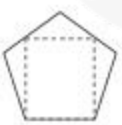
1.



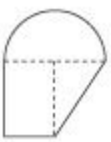
Exercise 3

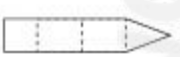
1. 

2. 

3. 

4. 

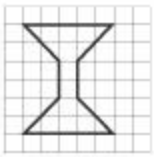
5. 

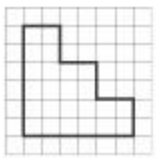
6. 

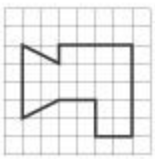
7. 

8. 

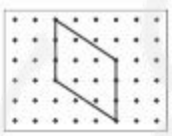
Exercise 4

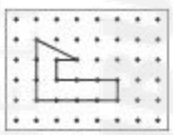
1. 

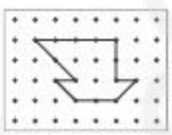
2. 

3. 

Exercise 5

1. 

2. 

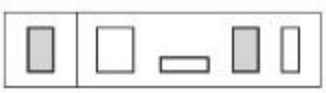
3. 

Achieve

Exercise 1

1. 

2. 

3. 

Exercise 2

1. $8 - 5 = 3$
   There are **3** more circles than triangles.

2. There is the same number of **triangles** and **rectangles**.

3. $5 + 5 = 10$
   There are **10** triangles and rectangles altogether.

Exercise 3

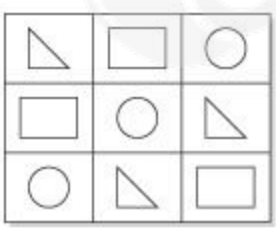
1. The shapes are grouped according to **colour**.

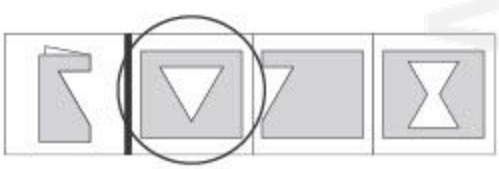
2. The shapes are grouped according to **shape**.

3. The shapes are grouped according to **size**.

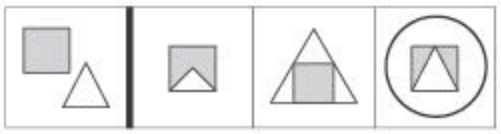
Challenge

Exercise 1

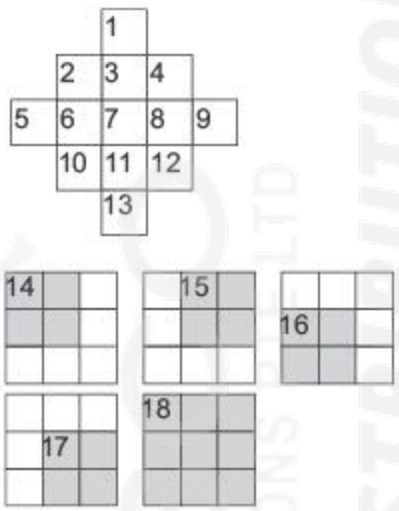
1. 

2. 

3. 

4. 

5. **18 squares**



6. 

Unit 5 Ordinal Numbers

Drills

Exercise 1

1. James
2. Danny
3. Rodney
4. Frank
5. James
6. Suzie

Exercise 2

1. second
2. third
3. fourth
4. fifth

Exercise 3

1. pair of jeans
2. T-shirt
3. dress
4. jacket
5. pyjamas

Perform

Exercise 1

1. 

2. 

3. 

4. 

5. 

Exercise 2

1. 

2. 

3. 

4. 

5. 

Achieve

Exercise 1

1. (2)
2. (3)
3. (4)
4. (2)

Exercise 2

1. 

2. 

3. 

4. 

Unit 6 Numbers To 20

Drills

Exercise 1

No.	Numerals	Words
1.	17	Seventeen
2.	18	Eighteen
3.	16	Sixteen
4.	19	Nineteen
5.	13	Thirteen
6.	11	Eleven
7.	20	Twenty
8.	9	Nine
9.	12	Twelve
10	14	Fourteen
11.	10	Ten
12.	15	Fifteen

Exercise 2

No.	Sets of items	Numbers
1.		16
2.		19
3.		15
4.		13
5.		14
6.		16

Exercise 3

1. **1** ten **7** ones
   = **17** ones

2. **1** ten **8** ones
   = **18** ones

3. **1** ten **9** ones
   = **19** ones

4. **1** ten **5** ones
   = **15** ones

5. **1** ten **6** ones
   = **16** ones

6. **1** ten **3** ones
   = **13** ones

Perform

Exercise 1

1.  ✓

2. 

 ✓

3.  ✓

Exercise 2

1. 2 more than 16 is **18**.
2. 3 more than 15 is **18**.
3. 4 more than 10 is **14**.
4. 6 more than 9 is **15**.

Exercise 3

1.  ✓

2.  ✓

3. 

 ✓

Exercise 4

1. 4 less than 11 is **7**.
2. 3 less than 12 is **9**.
3. 2 less than 15 is **13**.
4. 1 less than 17 is **16**.

Exercise 5

1. (2)
2. (4)
3. (2)
4. (3)
5. (2)
6. (4)
7. (4)

Achieve

Exercise 1

1. (a) 10, 12, 13, 16

   (b) 12, 15, 17, 19

   (c) 9, 11, 14, 20

2. (a) 14, 11, 10, 7

   (b) 17, 16, 13, 9

   (c) 19, 16, 12, 6

Exercise 2

1. 20 2. 8

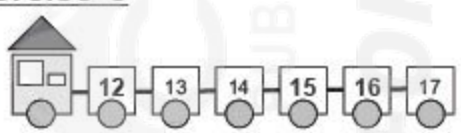
3. 18 4. 11

5. 13 6. 8

7. 8, 11, 13, 16, 18, 20

Exercise 3

1.



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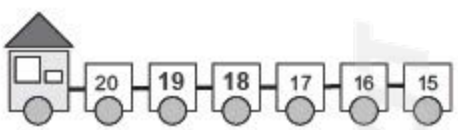

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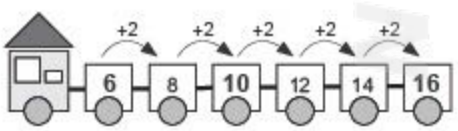

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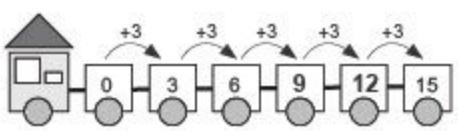

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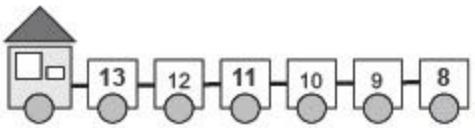

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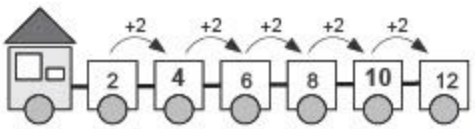
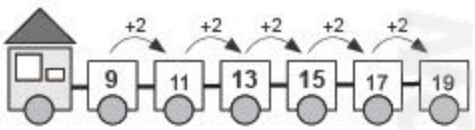
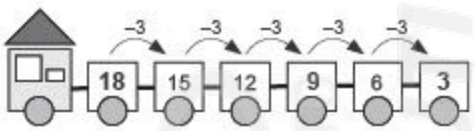


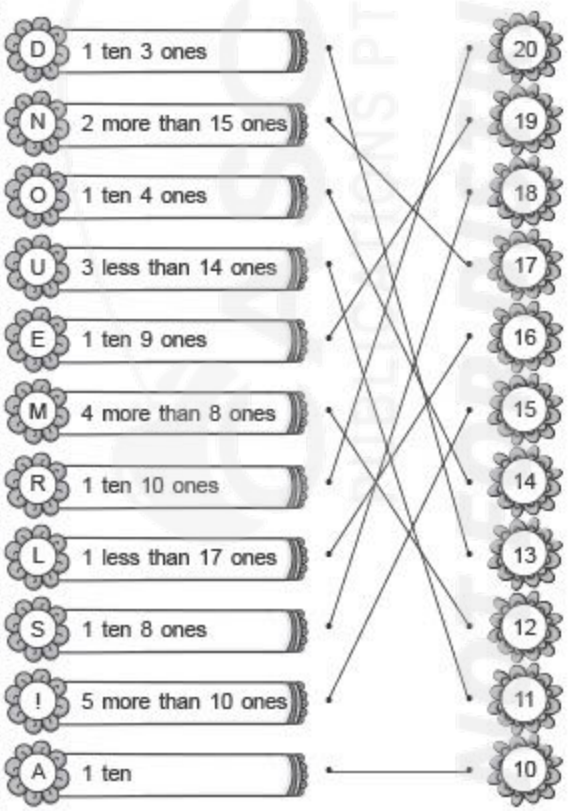
7.



8.



Exercise 4



N	U	M	E	R	A	L	S
17	11	12	19	20	10	16	18

A	N	D	M	O	R	E	!
10	17	13	12	14	20	19	15

Exercise 5

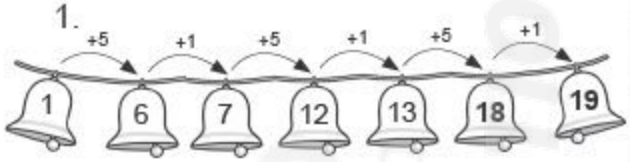
1. (2) 2. (3)

3. (2) 4. (3)

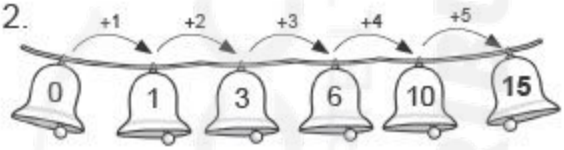
Challenge

Exercise 1

1.

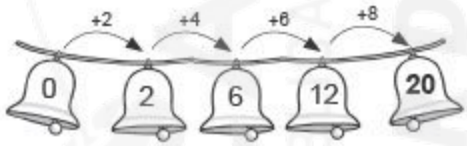


2.



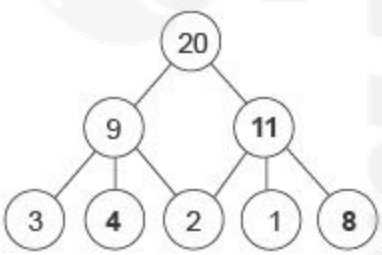
3.

4.

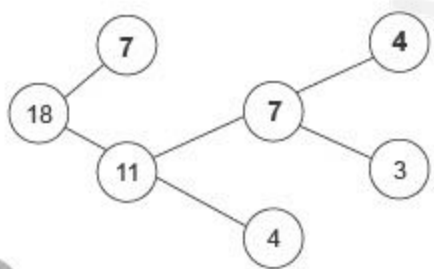


Exercise 2

1.



2.

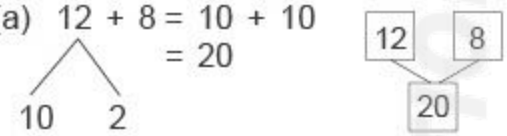


Unit 7 Addition And Subtraction Within 20

Drills

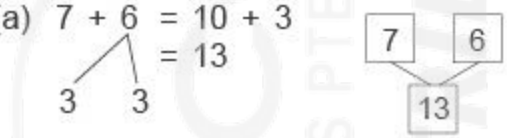
Exercise 1

1. (a) $12 + 8 = 10 + 10$
$= 20$



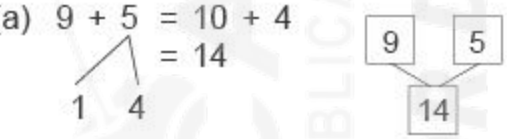
(b) Count On → 13, 14, 15, 16, 17, 18, 19, 20

2. (a) $7 + 6 = 10 + 3$
$= 13$



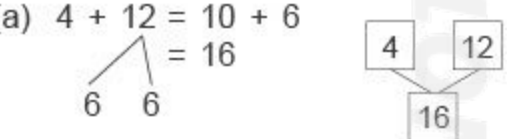
(b) Count On → 8, 9, 10, 11, 12, 13

3. (a) $9 + 5 = 10 + 4$
$= 14$



(b) Count On → 10, 11, 12, 13, 14

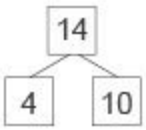
4. (a) $4 + 12 = 10 + 6$
$= 16$



(b) Count On → 13, 14, 15, 16

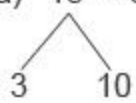
Exercise 2

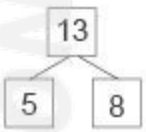
1. (a) $14 - 4 = 10 + 0$
$= 10$



(b) Count back → 13, 12, 11, 10

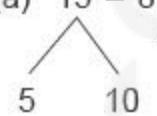
2. (a) $13 - 5 = 3 + 5$
$= 8$

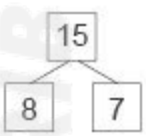




(b) Count back → 12, 11, 10, 9, 8

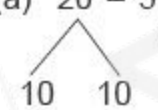
3. (a) $15 - 8 = 5 + 2$
$= 7$

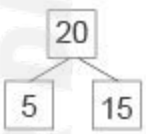




(b) Count back → 14, 13, 12, 11, 10, 9, 8, 7

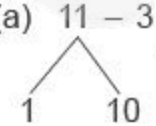
4. (a) $20 - 5 = 10 + 5$
$= 15$

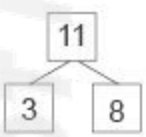




(b) Count back → 19, 18, 17, 16, 15

5. (a) $11 - 3 = 1 + 7$
$= 8$



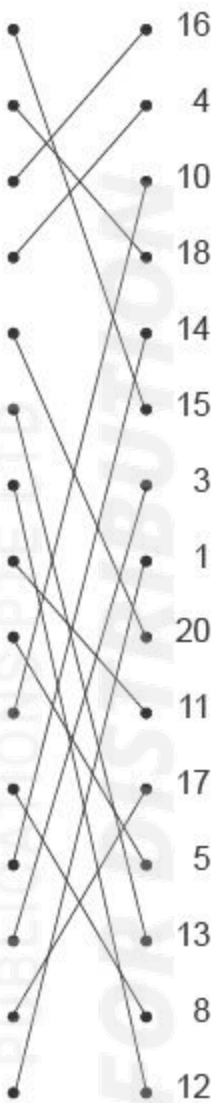


(b) Count back → 10, 9, 8

Perform

Exercise 1

1. 3 more than 12
2. 2 less than 20
3. 6 more than 10
4. 5 less than 9
5. 4 more than 16
6. Add 6 to 7
7. Subtract 7 from 19
8. Add 3 to 8
9. Subtract 9 from 14
10. Add 4 to 6
11. Subtract 5 from 13
12. Add 6 to 8
13. Subtract 8 from 11
14. Add 7 to 10
15. Subtract 5 from 6



Exercise 2

1. (4)
2. (4)
3. (3)
4. (2)
5. (2)

Achieve

Exercise 1

1. (1) 2. (3)

3. (4) 4. (3)

5. (1) 6. (4)

Exercise 2

1. 17 – 8 = 9
   Ben is thinking of the number **9**.

2.  = 12 – 5
   = 7

    = 7 + 7
   = **14**

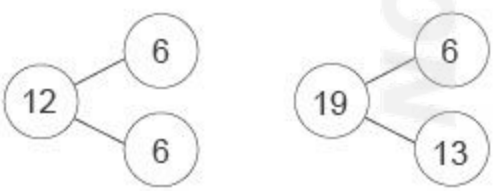
3. **13** + **5** = **18**

   18 – **13** = **5**

   or

   5 + **13** = **18**

   18 – **5** = **13**

4. 

    = **13**

5. (a) 14 (+) 6 = 20

   (b) 8 (+) 8 = 16

   (c) 17 (–) 7 = 10

6. (a) **8** + 5 = 13

   (b) 20 – **9** = 11

   (c) 12 + **7** = 19

   (d) **15** – 8 = 7

   (e) **20** – 4 = 13 + 3

Exercise 3

1. **9** + **5** = **14**

   There are **14** children altogether.

2. **11** – **6** = **5**

   There are **5** fewer kittens than puppies.

3. **7** + **9** = **16**

   There are **16** blue beads.

4. **20** – **5** = **15**

   Tom had **15** dice left.

5. 4 + 9 = 13

Frank baked **13** muffins.

6. 6 + 7 = 13

Mandy bought **13** stickers.

7. 12 – 7 = 5

He had **5** cookies at first.

8. 19 – 8 = 11

Joe had **11** rulers.

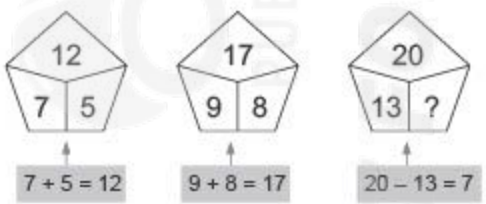
9. 14 – 3 = 11

Julie bought **11** stamps.

Challenge

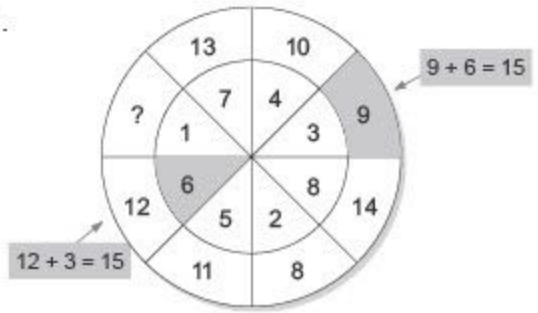
Exercise 1

1.



The missing number is **7**.

2.



The sum of the number in the inner ring and the number in vertically – opposite outer ring is '15'.

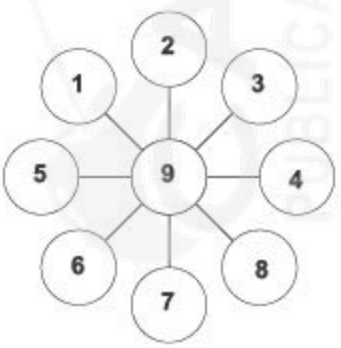
15 – 8 = 7

The missing number is **7**.

3. 12 – 7 + 4 = 9

12 – 7 = 5
5 + 4 = 9

4.



5. ◇ + ◇ + ◇ = 18

18 = 6 + 6 + 6

∴ ◇ = 6

◈ + ◇ + ◇ = 17

◈ + 6 + 6 = 17

◈ + 12 = 17

∴ ◈ = 17 − 12

= 5

◈ + ◈ + ✿ = 14

5 + 5 + ✿ = 14

10 + ✿ = 14

∴ ✿ = 14 − 10

= **4**

6.

Page	No. of digits
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	2
Total no. of digits	11

He would have to write **11** digits altogether.

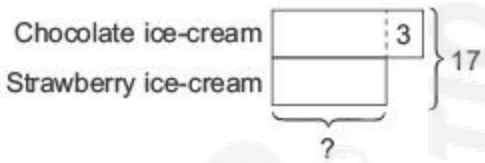
7.

1st number	19	18	17	16	15	14	13	12
2nd number	1	2	3	4	5	6	7	8
Sum	20	20	20	20	20	20	20	20
Difference	18	16	14	12	10	8	6	(4)

less than 5

The two numbers are **12** and **8**.

8.



2 units = 17 − 3

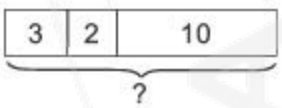
= 14

14 = 7 + 7

1 unit = 7

She bought **7** sticks of strawberry ice-cream.

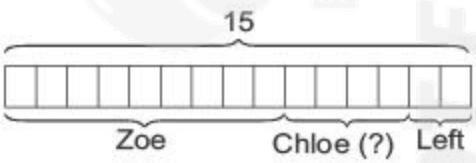
9.



3 + 2 + 10 = 15

She baked **15** cupcakes.

10.



9 + 2 = 11

15 − 11 = 4

She gave **4** paper flowers to Chloe.

Unit 8 Picture Graphs

Drills

Exercise 1

1. (a) 16 (b) 14
   (c) 16 (d) 17
2. (a) 10 (b) 19
   (c) 12 (d) 16
3. (a) 25 (b) 15
   (c) 23 (d) 14

Perform

Exercise 1

1. (a) 9 (b) 3
   (c) 4 (d) 29
2. (a) 9 (b) 3
   (c) 6 (d) 45
3. (a) 1 (b) 22
   (c) 8 (d) 91

Achieve

Exercise 1

1. (a) 21
   (b) 17
   (c) 14
   (d) 17
   (e) Shirley
   (f) Wendy
   (g) 7
   (h) 4
   (i) Natalie, Megan
   (j) 69
2. (a) 15
   (b) 17
   (c) 11
   (d) 15
   (e) Natalie
   (f) Sally
   (g) 4
   (h) 2
   (i) Janice, Marcy
   (j) 58
3. (a) 15
   (b) 14
   (c) 11
   (d) 1

(e) 3

(f) chocolate

(g) vanilla

(h) 29

(i) 25

(j) 40

Exercise 2

1. (a) 8 – 6 = 2
If Lisa buys **2** more game cards, she will have the same number of game cards as Jim.

(b) 12 – 3 = 9
Alice has 9 game cards.

Number of game cards each child had	
Lisa	● ● ● ● ● ●
Jim	● ● ● ● ● ● ● ●
Tim	● ● ●
Alice	● ● ● ● ● ● ● ● ●
Each ● stands for 1 game card.	

(c) 3 × $2 = $6
He spent **$6** on all his game cards.

(d) **Alice** has the most number of game cards.

Challenge

Exercise 1

1.

Colours of jelly beans			
			
Red	Green	Yellow	Blue
Each ♥ stands for 1 jelly bean.			

(a) 12 + 8 + 6 + 10 = 36
There are **36** jelly beans in the box altogether.

(b) 12 + 8 = 20
∴ 20 – 6 = 14
There are **14** more red and green jelly beans than yellow jelly beans.

(c) 8 + 10 = 18
18 = 3 + 3 + 3 + 3 + 3 + 3
There will be **3** jelly beans on each plate.

(d) 12 = 4 + 4 + 4
Each of them will receive **4** red jelly beans.

2.

Weather in November	
Sunny Day	♡♡♡♡♡♡♡♡♡♡♡
Cloudy Day	♡♡♡♡♡♡♡
Rainy Day	♡♡♡♡♡♡♡♡♡♡♡♡
Each ♡ stands for 1 day of such weather.	

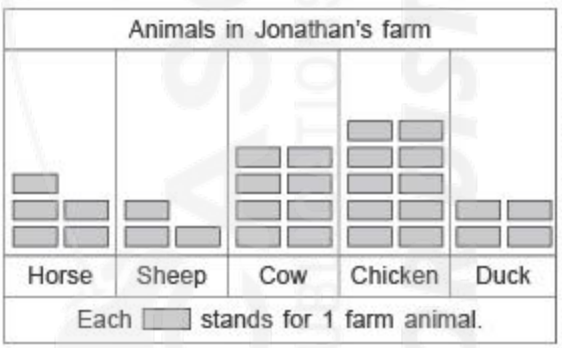
(a) Most of the days in November are **rainy** days.

(b) 11 – 7 = 4
There are **4** more sunny days than cloudy days.

(c) The best days would have been from **7** to **9** November.

(d) They must have gone on **13** November.

3.



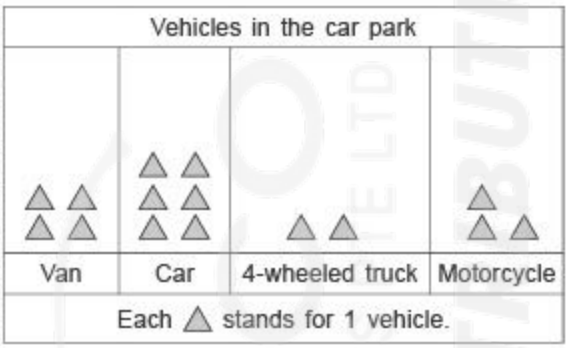
(a) Jonathan has the most number of **chickens**.

(b) (8 × 4) + (5 × 4) + (3 × 4)
= 32 + 20 + 12
= 64
All the cows, horses and sheep have **64** legs altogether.

(c) (10 × 2) + (4 × 2)
= 20 + 8
= 28
All the chickens and ducks have **28** legs altogether.

(d) (5 × 4) – (4 × 2)
= 20 – 8
= 12
All the horses have **12** more legs than the ducks.

4.



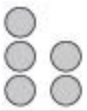
(a) 6 – 3 = 3
There are **3** more cars than motorcycles in the car park.

(b) 4 + 6 + 2 + 3 = 15
There are **15** vehicles in the car park altogether.

(c) 6 + 4 = 10
∴ 10 × 4 = 40
All the cars and vans have **40** wheels altogether.

(d) (4 × 4) – (2 × 4)
= 16 – 8
= 8
All the trucks have **8** fewer wheels than all the vans.

5.

Number of coins Xiao Min saved			
			
Ten-cent coin	Twenty-cent coin	Fifty-cent coin	One-dollar coin
Each ◯ stands for 1 coin.			

(a) 50¢ + 50¢ + 50¢ + 50¢ + 50¢ = $2.50,
$1 + $1 + $1 = $3,
$2.50 + $3 = $5.50
Xiao Min saved **$5.50** worth of fifty-cent and one-dollar coins.

(b) 10¢ + 10¢ + 10¢ + 10¢ + 10¢ = 50¢

20¢ + 20¢ + 20¢ + 20¢ + 20¢ + 20¢ + 20¢ + 20¢ + 20¢ + 20¢ = $2

50¢ + 50¢ + 50¢ + 50¢ + 50¢ = $2.50

$1 + $1 + $1 = $3

∴ 50¢ + $2 + $2.50 + $3 = $8
Xiao Min saved **$8** altogether.

(c) $1 + $1 = $2
∴ $2 + $8 = $10
She will have **$10** altogether in the end.

(d) $12 – $10 = $2
She will need **$2** more.

Unit 9 Numbers To 100

Drills

Exercise 1

No.	Numerals	Words
1.	42	Forty-two
2.	56	Fifty-six
3.	60	Sixty
4.	87	Eighty-seven
5.	73	Seventy-three
6.	95	Ninety-five

Perform

Exercise 1

1. 45 + 7 = 52
7 more than 45 is **52**.

2. 62 – 8 = 54
8 less than 62 is **54**.

3. 53 + 12 = 65
12 more than **53** is 65.

4. 60 – 1 = 59
1 less than 60 is 59.

5. 78 + 8 = 86
8 more than 78 is 86.

6. 74 – 5 = 69
5 less than **74** is 69.

7. 75 + 13 = 88
13 more than 75 is 88.

8. 86 – 26 = 60
26 less than **86** is 60.

Exercise 2

1. (a) 68, 79, 86, 97
   (b) 48, 84, 93, 100
   (c) 39, 41, 55, 62

2. (a) 96, 78, 74, 59
   (b) 86, 63, 48, 40
   (c) 100, 82, 64, 57

Exercise 3

1. (a) 48
   (b) 96
   (c) 96
   (d) 48
   (e) 63
   (f) 96, 72, 63, 48

2. (a) 49
   (b) 100
   (c) 100
   (d) 49
   (e) 81
   (f) 49, 69, 81, 100

Exercise 4

1. 

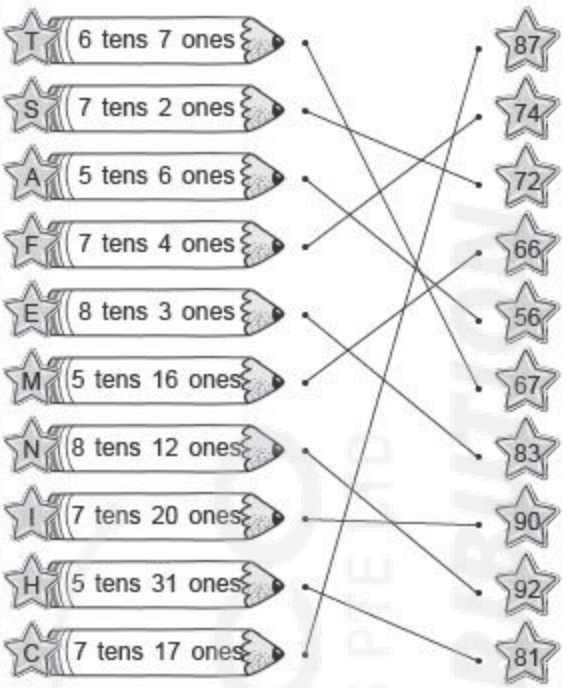
2. 

3. 

4. 

Achieve

Exercise 1



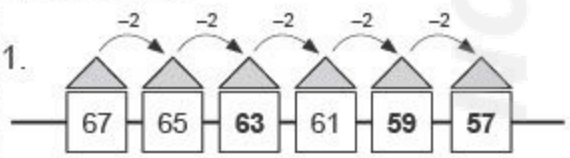
M	A	T	H	E	M	A	T	I	C	S
66	56	67	81	83	66	56	67	90	87	72

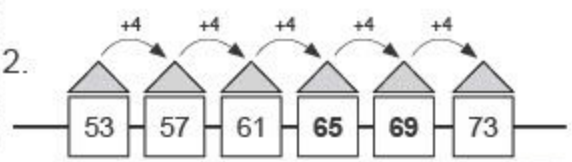
I	S		F	U	N	
90	72		74		92	!

Exercise 2

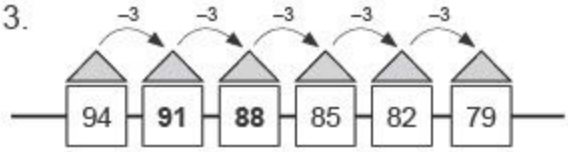
1. 66
2. greater than
3. 68
4. 40
5. 6
6. 7
7. 10
8. 8
9. 72
10. 40

Exercise 3

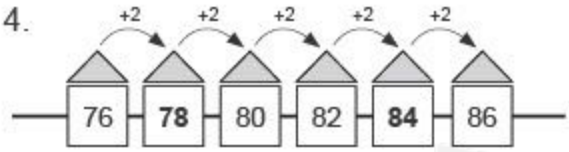
1. 

2. 

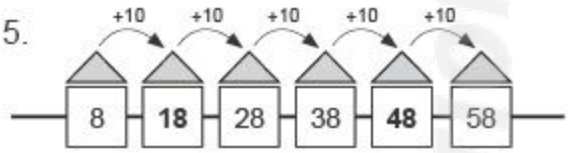
3.



4.



5.



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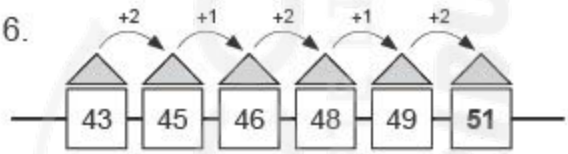

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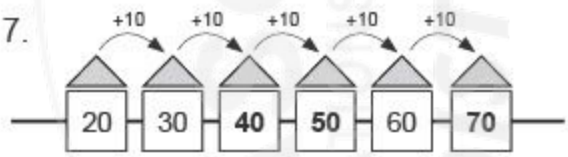
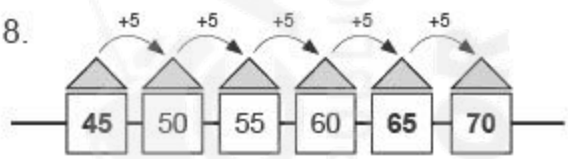


8.



Exercise 4

1. (a) 87
   (b) 30

2.

Tens	Ones
5	7

Sum of digits
5 + 7 = 12

7 − 2 = 5

I am the number **57**.

Unit 10 Addition And Subtraction Within 100

Drills

Exercise 1

1. 37 + 6 = 40 + 3
   = 43
   (3, 3)

2. 78 + 8 = 80 + 6
   = 86
   (2, 6)

3. 66 + 14 = 76 + 4
   = 80
   (10, 4)

4. 73 + 16 = 83 + 6
   = 89
   (10, 6)

5. 58 + 19 = 68 + 9
   = 77
   (10, 9)

6. 84 + 16 = 94 + 6
   = 100
   (10, 6)

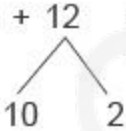
7. 45 + 19 = 55 + 9
   = 64
   (10, 9)

8. 39 + 13 = 49 + 3
= 52

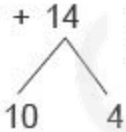
9. 68 + 11 = 78 + 1
= 79

10. 54 + 28 = 74 + 8
= 82

11. 79 + 12 = 89 + 2
= 91

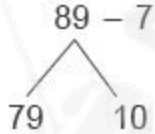


12. 67 + 14 = 77 + 4
= 81

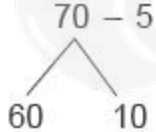


Exercise 2

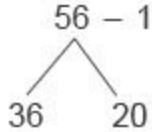
1. 89 – 7 = 79 + 3
= 82



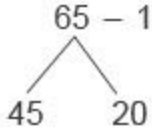
2. 70 – 5 = 60 + 5
= 65



3. 56 – 12 = 36 + 8
= 44



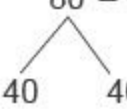
4. 65 – 12 = 45 + 8
= 53



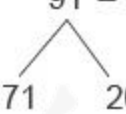
5. 42 – 18 = 22 + 2
= 24

6. 97 – 25 = 67 + 5
= 72

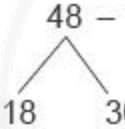
7. 80 – 34 = 40 + 6
= 46



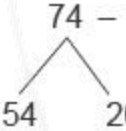
8. 91 – 19 = 71 + 1
= 72



9. 48 – 26 = 18 + 4
= 22

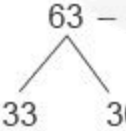


10. 74 – 17 = 54 + 3
= 57

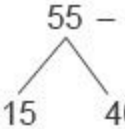


11. 82 – 13 = 62 + 7
= 69

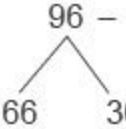
12. 63 – 25 = 33 + 5
= 38



13. 55 – 36 = 15 + 4
= 19



14. 96 – 28 = 66 + 2
= 68



Perform

Exercise 1

1. (4) 2. (3)

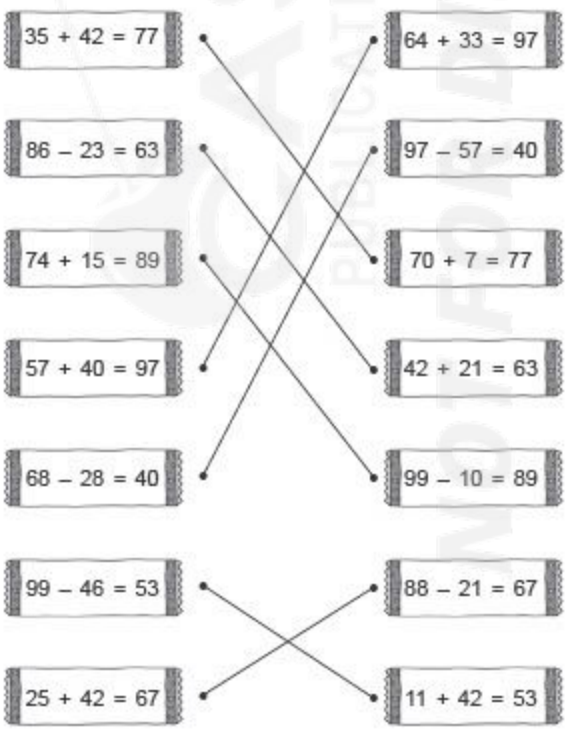
3. (3) 4. (2)

5. (4) 6. (2)

7. (1)

Exercise 2

Exercise 3



Exercise 4

1. 37 + 23 = 60

2. 50 – 7 = 43

Achieve

Exercise 1

1. 36 + 60 = 96
   60 + 36 = 96

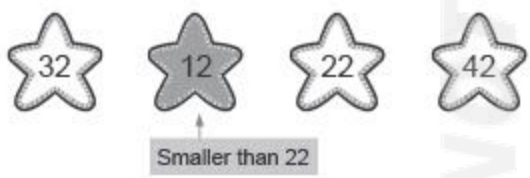
2. 35 + 48 = 83
   83 – 35 = 48

   or

   48 + 35 = 83
   83 – 48 = 35

Exercise 2

1. 90 – 68 = 22

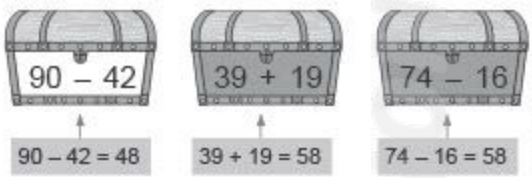


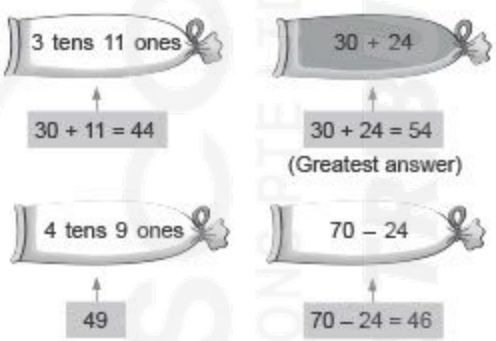
2. Sum = 63 + 37
   = **100**

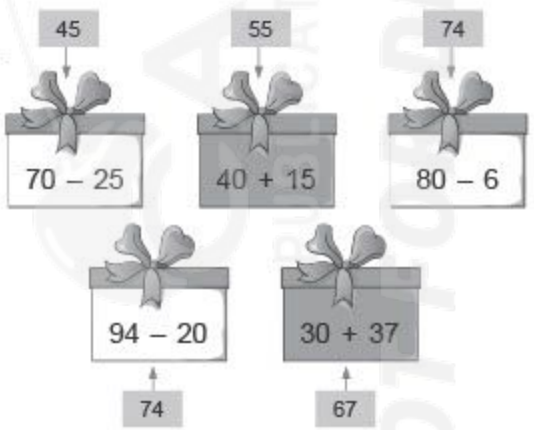
3. 

68 + 17 = 85

Exercise 3

1. 

2. 

3. 

Exercise 4

1. (a) 47 + **14** = 61

   (b) **45** – 15 = 30

   (c) 66 + **16** = 82

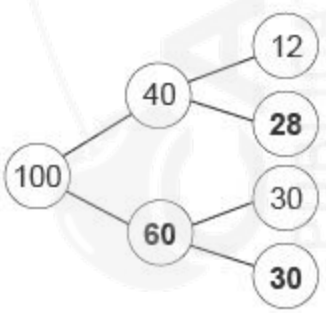
   (d) 80 – **30** = 23 + 27

2. (a) 36 (+) 14 = 100 (–) 50

   (b) 57 (–) 11 = 36 (+) 10

   (c) 90 (–) 7 = 43 (+) 40

   (d) 74 (–) 22 = 69 (–) 17

3. 

Exercise 5

1.	$\begin{array}{r} 5\,\boxed{6} \\ +\ 2\ 4 \\ \hline 8\ 0 \end{array}$	2.	$\begin{array}{r} \boxed{9}\ 3 \\ -\ 3\ 6 \\ \hline 5\ 7 \end{array}$
3.	$\begin{array}{r} 7\ 4 \\ -\ \boxed{5}\ 8 \\ \hline 1\ 6 \end{array}$	4.	$\begin{array}{r} 3\ 2 \\ +\ 5\ \boxed{9} \\ \hline 9\ 1 \end{array}$
5.	$\begin{array}{r} 8\ 1 \\ -\ \boxed{1}\ \boxed{5} \\ \hline 6\ 6 \end{array}$	6.	$\begin{array}{r} \boxed{3}\ 5 \\ +\ 4\ \boxed{8} \\ \hline 8\ 3 \end{array}$

Exercise 6

1. 59 + 11 = 70

Gloria had **70** seashells after that.

2. 62 − 24 = 38

Rodney bought **38** marbles.

3. 81 + 15 = 96

She had **96** dolls at first.

4. 69 + 25 = 94

Dawn made **94** necklaces and bracelets altogether.

5. 53 − 28 = 25

She sewed **25** fewer dresses than shorts.

6. 60 − 28 = 32

He sold **32** yo-yos.

7. 86 − 53 = 33

She makes **33** round cookies.

8. 75 − 23 = 52

Ahmad has **52** stickers.

9. 38 + 19 = 57

Lisa makes **57** cupcakes.

10. 64 + 15 = 79

Kenny folds **79** paper aeroplanes.

11. 56 + 18 = 74

He is thinking of the number **74**.

12. 46 + 24 + 28 = 98

She had **98** sweets at first.

13. (a) 45 − 39 = 6

He sold **6** more chairs in January than in February.

(b) 45 + 39 = 84

He sold **84** chairs in both months altogether.

14. (a) 60 − 37 = 23

Henry has **23** sweets.

(b) 37 − 23 = 14

Benjamin has **14** more sweets than Henry.

15. (a) 36 + 15 = 51

He has **51** blue pails.

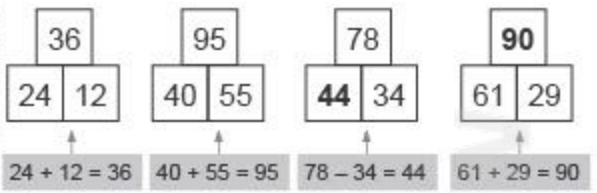
(b) 36 + 51 = 87

He has **87** pails altogether.

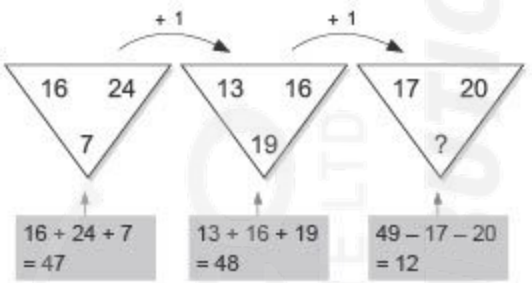
Challenge

Exercise 1

1.

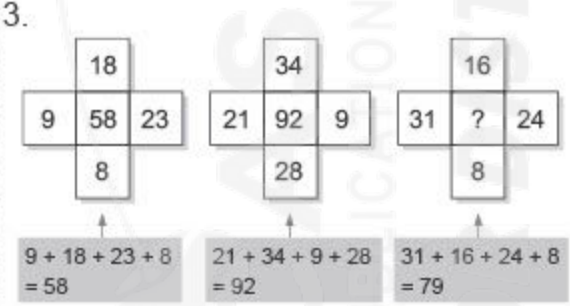


2.



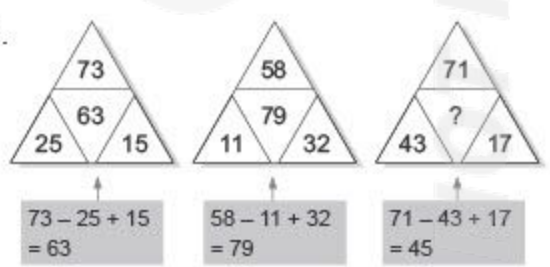
The missing number is **12**.

3.

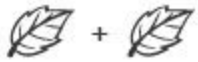


The missing number is **79**.

4.

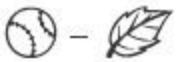


The missing number is **45**.

5.  = 12

12 = 6 + 6

∴  = 6

 = 30

 – 6 = 30

∴  = 30 + 6 = 36

 = 36

36 = 12 + 12 + 12

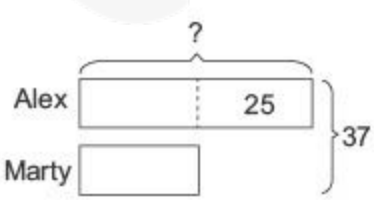
∴  = 12

∴  = 12 + 36
= **48**

6.

50	+	**40**	=	90
+				+
30				**10**
=				=
80	+	**20**	=	**100**

7.



2 units = 37 – 25
= 12 mini toy cars

12 = 6 + 6
1 unit = 6 mini toy cars

6 + 25 = 31

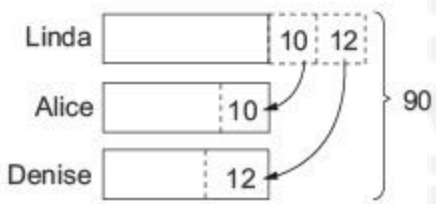
Alex collected **31** mini toy cars.

8.

Day	1	2	3	4	5	6	7	8
No. of storybooks	53	56	59	62	65	68	71	74

It takes him **8** more days to read 74 storybooks altogether.

9.

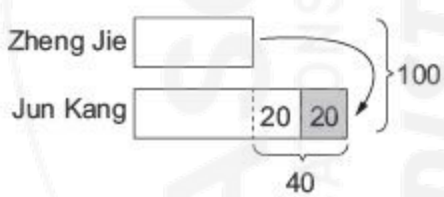


90 = 30 + 30 + 30
Each girl had 30 pencils in the end.

30 + 10 + 12 = 52

Linda had **52** pencils at first.

10.



2 units = 100 – 40
= 60 stamps

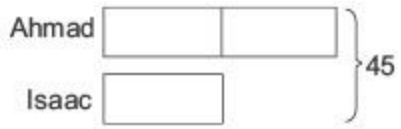
60 = 30 + 30

Zheng Jie had 30 stamps in the end.

30 + 20 = 50

Zheng Jie had **50** stamps at first.

11. 90 = 45 + 45
Each of them had 45 white marbles.



45 = 15 + 15 + 15

1 unit = 15 marbles
2 units = 15 + 15
= 30 marbles

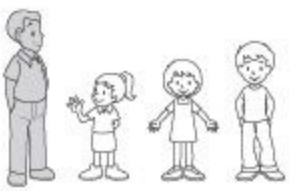
45 + 15 = 60 (Isaac)
45 + 30 = 75 (Ahmad)

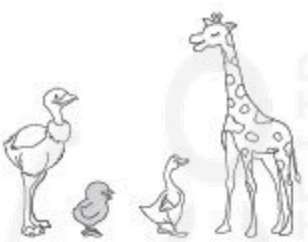
Isaac had **60** marbles and Ahmad had **75** marbles.

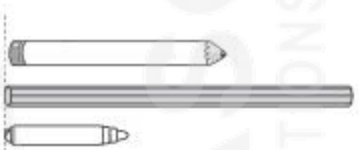
Unit 11 Length

Drills

Exercise 1

1. 

2. 

3. 

4. 

Exercise 2

1. (a) A
(b) B
(c) C

2. (a) dustbin
(b) kettle
(c) teapot

Perform

Exercise 1

1. (a) deer
   (b) hen
   (c) hen
   (d) dog
   (e) cat
   (f) hen, cat, dog, deer

2. (a) A
   (b) B
   (c) A
   (d) B
   (e) C
   (f) D
   (g) B, C, D, A

3. (a) B
   (b) A
   (c) D
   (d) E
   (e) B, D, C, E, A

Exercise 2

1. (a) 15
   (b) 8

2. (a) 4
   (b) 13
   (c) 9
   (d) 17

3. (a) 5
   (b) 6
   (c) 12
   (d) A
   (e) C
   (f) 7
   (g) 23
   (h) Ribbon **C**, Ribbon **B**, Ribbon **A**.

Exercise 3

1. (a) 11
   (b) 8
   (c) 3

2. X ——————————————— Y

Achieve

Exercise 1

1. 6

2. 9

3. 5

4. Length of 1 hammer = 28 cm
   28 cm + 28 cm = 56 cm

   The total length of 2 such hammers is **56** cm.

5. (a) Ribbon C is **7** cm long.

   (b) Ribbon **D** is 4 cm long.

   (c) Ribbon **A** is as long as Ribbon **E**.

   (d) 7 – 3 = 4
   The longest ribbon is **4** cm longer than the shortest ribbon.

   (e) 3 + 4 = 7
   The total length of Ribbon **B** and Ribbon **D** is the same as the length of Ribbon C.

Unit 12 Multiplication And Division

Drills

Exercise 1

1. **3** groups of **8**
   = **8** + **8** + **8**
   = **3** × **8**
   = **24**

2. **5** groups of **2**
   = **2** + **2** + **2** + **2** + **2**
   = **5** × **2**
   = **10**

3. **4** groups of **8**
   = **8** + **8** + **8** + **8**
   = **4** × **8**
   = **32**

4. **3** groups of **5**
   = **5** + **5** + **5**
   = **3** × **5**
   = **15**

Exercise 2

1. **2** × **6** = 12

2. **3** × **6** = **18**

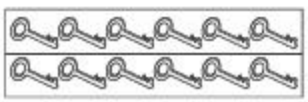
3. **2** × **5** = **10**

4. **2** × **8** = **16**

Exercise 3

1. 

4 groups of **3**

2. 

2 groups of **6**

3. 

6 groups of **3**

4. 

3 groups of **8**

5. 

5 groups of **7**

Perform

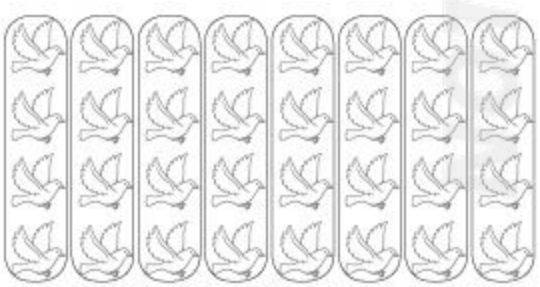
Exercise 1

4 + 4 + 4 + 4	21
2 groups of 5	16
3 × 7	24
10 + 10 + 10 + 10	10
9 + 9 + 9 + 9	36
5 groups of 6	18
4 × 6	30
4 + 4 + 4 + 4 + 4 + 4 + 4	28
6 + 6 + 6	40
7 groups of 2	35
5 × 7	27
3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3	14

Exercise 2

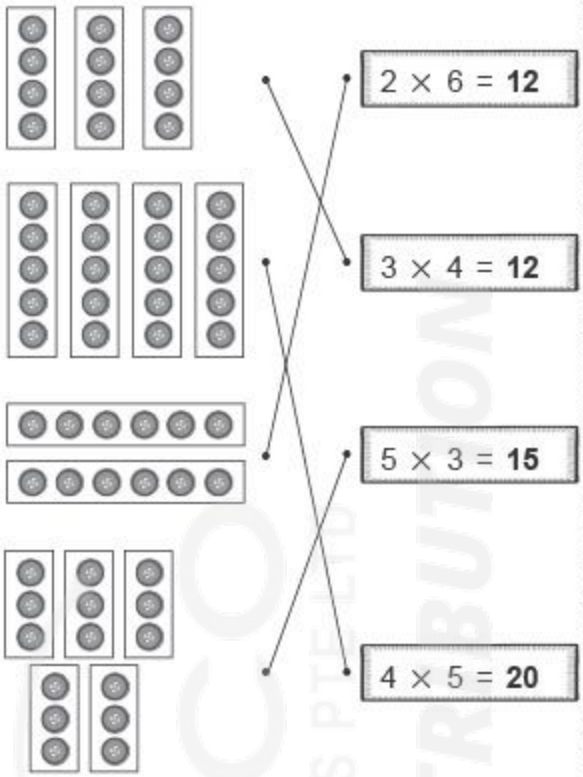
1. 

5 × 3 = **15**
There are **15** apples altogether.

2. 

8 × 4 = **32**
There are **32** birds altogether.

Exercise 3



3. (a)

(b) There are **6** trumpets in each group.

4. (a)

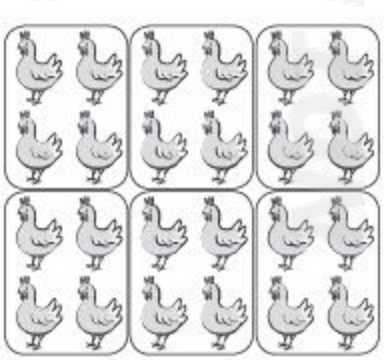
(b) There are **4** drums in each group.

Exercise 4

1. (a)

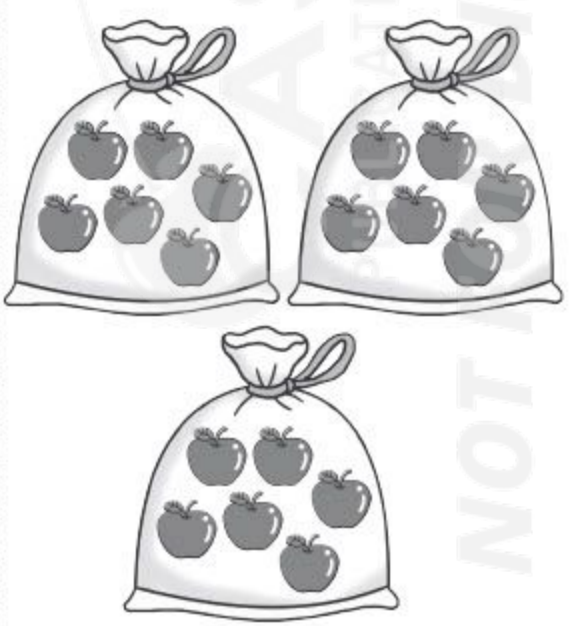
(b) There are **2** groups of 9 ducks.

2. (a)



(b) There are **6** groups of 4 chickens.

Exercise 5



Achieve

Exercise 1

1. (3)
2. (1)
3. (2)
4. (4)
5. (3)
6. (1)
7. (2)
8. (3)
9. (2)

Exercise 2

1. 4 × 4 = 16
2. 3 × 7 = 21
3. 5 × 2 = 10

Exercise 3

1. 5 × 6 = 30

   There are **30** grapes altogether.

2. 4 × 3 = 12

   There are **12** birds altogether.

3. 3 × 6 = 18

   There are **18** men altogether.

4. 10 × 3 = 30

   There are **30** cherries in all.

5. 2 × 9 = 18

   She uses **18** beads altogether.

6. 8 × 5 = 40

   There are **40** buttons altogether.

7. 4 × 10 = 40

   He can make **40** kites in 4 days.

8. 3 × 5 = 15

   She needs **15** balloons.

Exercise 4

1. 

   There are **3** families altogether.

2. 

   Each boy received **3** balls.

3.

There are **3** goldfish in each fishbowl.

4.

She uses **5** vases.

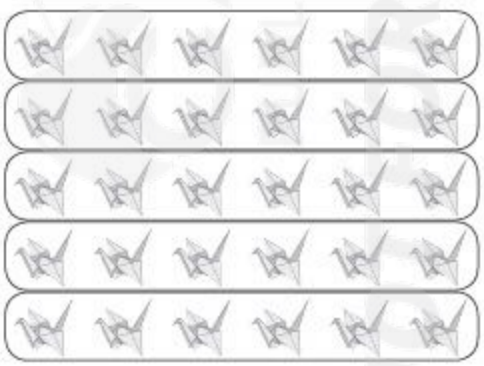
5.

He needs **4** boxes.

6.

There are **5** tarts in each box.

7.



He has **5** friends.

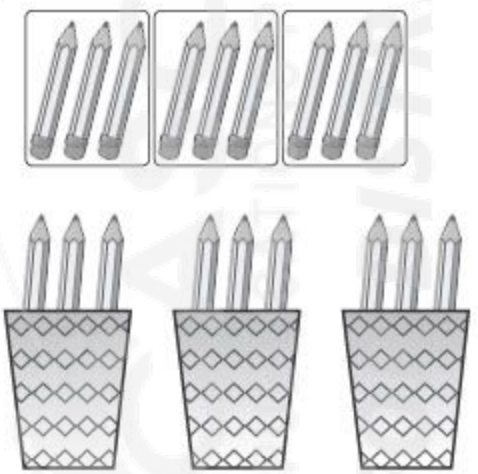
8. (a)

There are **8** hairpins in each box.

(b)

There are **4** hairpins in each box.

9. (a) 4 + 5 = 9



(b) There are **3** pencils in each pencil holder.

10. (a) $10 - 2 = 8$
There were **8** cupcakes left.

(b)

She got **4** bags of cupcakes.

Challenge

Exercise 1

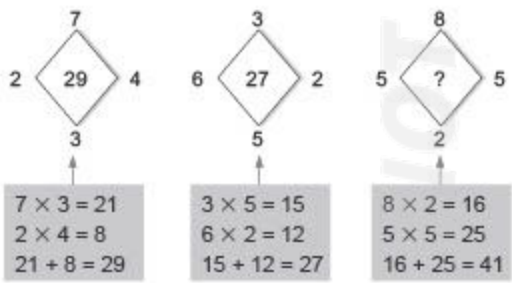
1. Work backwards.
$50 - 32 = 18$
$18 = 9 + 9$
The missing number is **9**.

2.

2	3	5	11	$2 \times 3 = 6$, $6 + 5 = 11$
5	4	8	28	$5 \times 4 = 20$, $20 + 8 = 28$
6	2	9	21	$6 \times 2 = 12$, $12 + 9 = 21$
?	6	8	26	$3 \times 6 = 18$, $18 + 8 = 26$

The missing number is **3**.

3.



The missing number is **41**.

4. $\square + \square = 16$
$8 + 8 = 16$
$\therefore \square = 8$
$\square + \square = \square$
$\square + \square = 8$
$4 + 4 = 8$
$\therefore \square = 4$
$\square + \square = \square$
$\square + \square = 4$
$2 + 2 = 4$
$\therefore \square = 2$

5.

$1 \times 12 = 12$
$2 \times 6 = 12$
$\therefore 3 \times 4 = 12$

The missing number is **4**.

6. $5 \times 2 = 10$
He gave 10 marbles to his friends.
$\therefore 12 - 10 = 2$
He had **2** marbles left.

7. $3 \times 3 = 9$
$2 \times 4 = 8$
$\therefore 9 + 8 = 17$
She baked **17** cookies.

8. $2 \times 9 = 18$
Danny collected 18 stickers.
$\therefore 9 + 18 = 27$
They collected **27** stickers altogether.

9.

End of week	1	2	3
No. of stamps	$2 \times 2 = 4$	$2 \times 4 = 8$	$2 \times 8 = 16$

He would have **16** stamps at the end of the 3rd week.

10. Groups of 3 → 3 , 6 , 9 , (12), 15
Groups of 4 → 4 , 8 , (12), 16

There are **12** cupcakes on the plate.

Unit 13 Time

Drills

Exercise 1

1. 4:05
2. 9:35
3. 2:25
4. 7:55
5. 12:30
6. 7:30

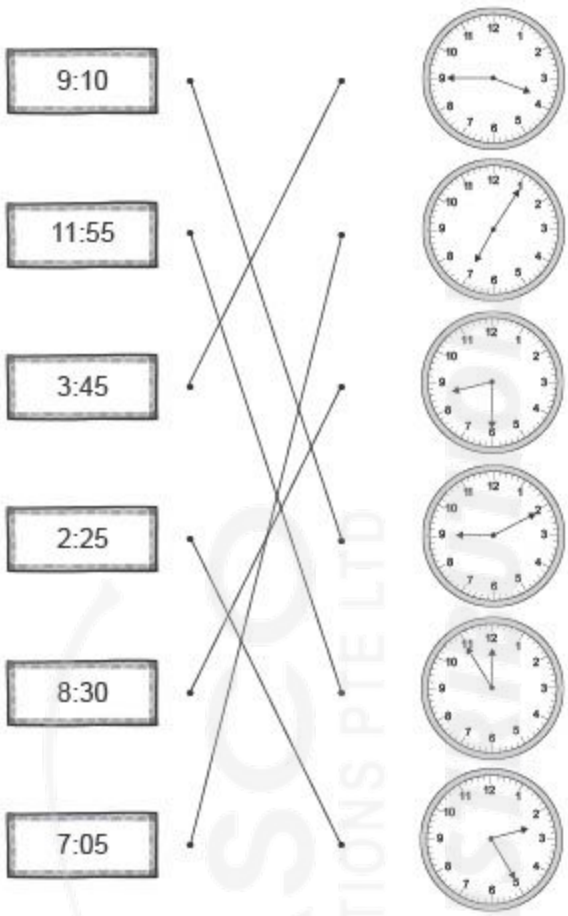
Exercise 2

1. 6:35

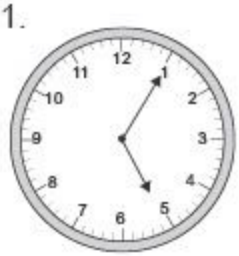
2. 4:10

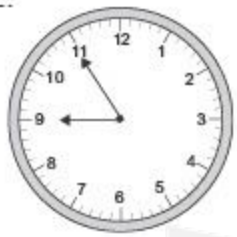
3. 12:45

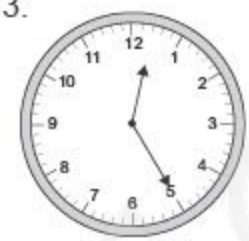
Exercise 3



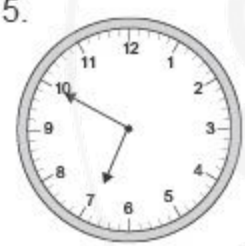
Exercise 4

1. 
5:05

2. 
8:55

3. 
12:25

4. 
2:40

5. 
6:50

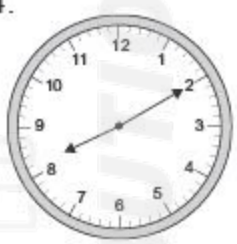
6. 
10:10

Exercise 5

1. 
11:50

2. 
4:05

3. 
6:35

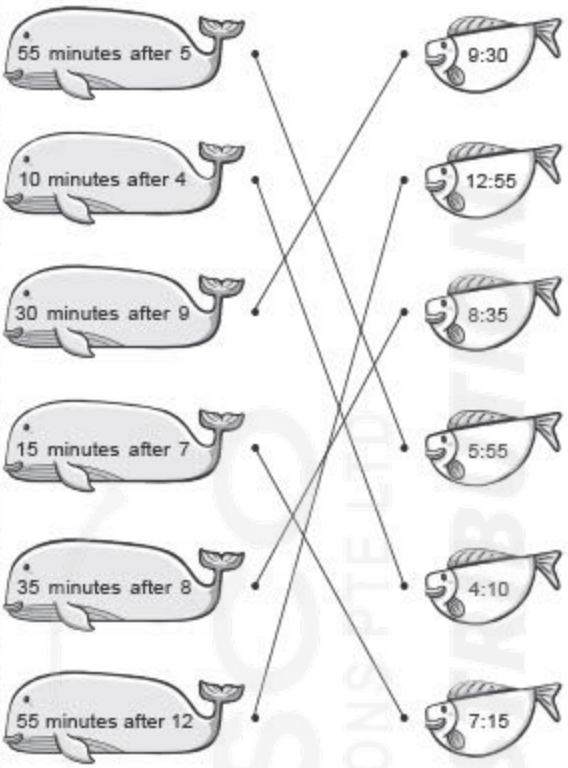
4. 
8:10

5. 
3:25

6. 
12:55

Perform

Exercise 1

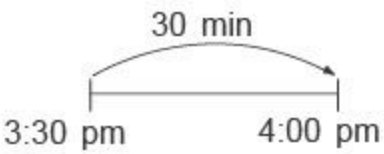


Exercise 2

1. pm
2. pm
3. am
4. pm
5. am
6. pm
7. am

Achieve

Exercise 1

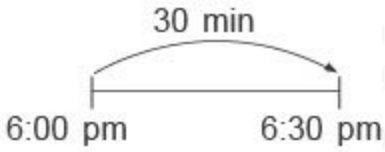
1. 

She reached the park at **4:00 pm**.

2.

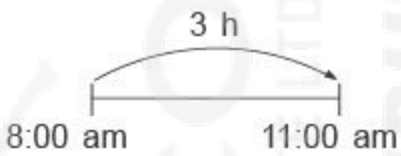
He will reach the market at **8:30 am**.

3.



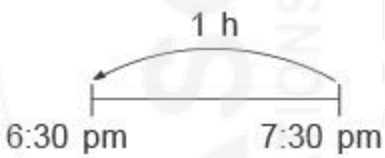
She finished her swim at **6:30 pm**.

4.



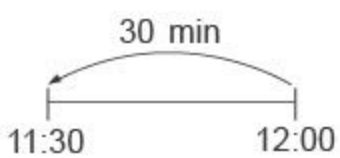
He reached Malacca at **11:00 am**.

5.



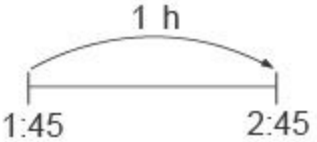
His piano lesson started at **6:30 pm**.

6.



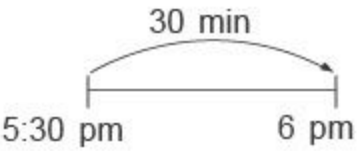
The actual time is **11:30**.

7.



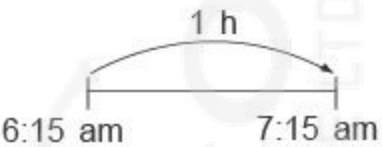
The actual time is **2:45**.

8.



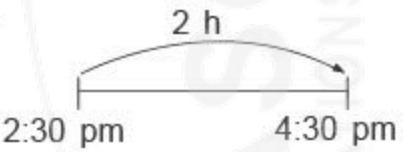
He spent **30 min** watching the programme.

9.



She takes **1 h** to get to school.

10.

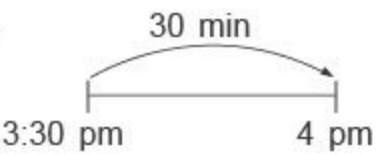


He was at Brian's place for **2 h**.

11.

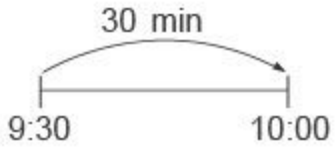
She was at the library for **1 h**.

12.



Mary was **30 min** late.

13.



Her yoga class was **30 min** long.

14. 30 min + 30 min
= 1 h

He will take **1 h** to run 2 rounds.

Unit 14 Money

Drills

Exercise 1

1. 60¢, sixty cents
2. 40¢, forty cents
3. $13, thirteen dollars
4. $30, thirty dollars
5. 95¢, ninety-five cents
6. $41, forty-one dollars
7. 80¢, eighty cents
8. $79, seventy-nine dollars

Exercise 2

1.

2.

3.

4. 

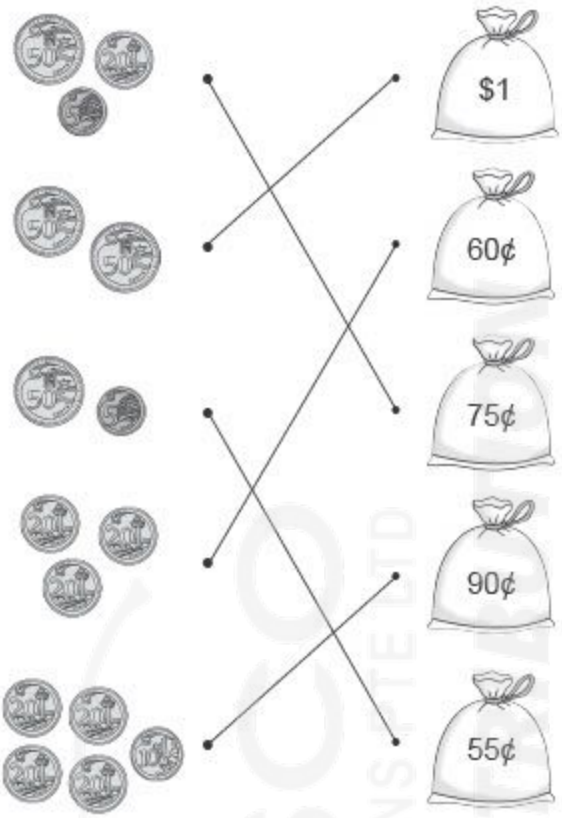
Exercise 3

1. 2
2. 2, 4
3. 5, 10
4. 2, 5, 10
5. 2
6. 5
7. 2, 5, 10
8. 5, 10
9. 2, 10, 20

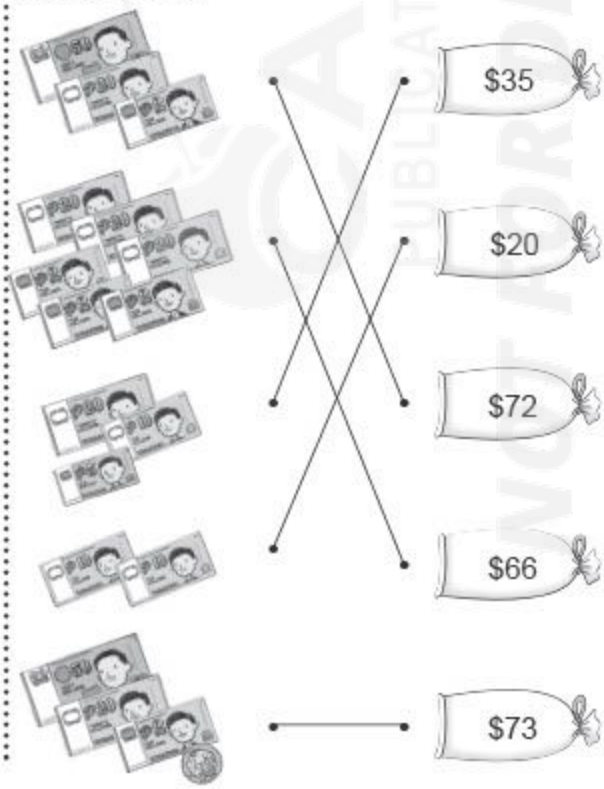
Exercise 4

1. 2
2. 1
3. 5
4. 20
5. 10

Exercise 5



Exercise 6



Exercise 7

1. 55
2. 65
3. **Mary** has more money than **Sarah**.

Perform

Exercise 1

1. 85¢ + 10¢ = 95¢
2. $2 + $1 = $3
3. $4 + $6 = $10
4. $12 + $3 = $15

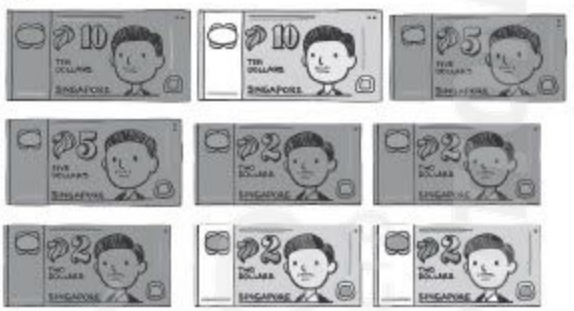
Exercise 2

1. 50¢ – 10¢ = 40¢
2. $7 – $1 = $6
3. $8 – $4 = $4
4. $30 – $3 = $27
5. $12 – $6 = $6

Exercise 3

1. $65 – $3 = **$62**
   The **briefcase** costs **$62** more.
2. **$1 – $0.25 = $0.75**
   The **apple** is **$0.75** cheaper.
3. **$26 – $19 = $7**
   The **shirt** costs **$7** more.

Exercise 4

1. 
2. 

Exercise 5

1. Sheila has 80¢.

35¢	+	45¢	=	80¢

   She can buy a **hairpin** and a **cookie**.

2. | $9 | + | $15 | = | $24 |
   |---|---|---|---|---|

   She bought a **cap** and a **T-shirt**.

Achieve

Exercise 1

1. | $25 | – | $20 | = | $5 |
   |---|---|---|---|---|

   He needs **$5** more.

2. 

She can save **$14** in a week.

3. 

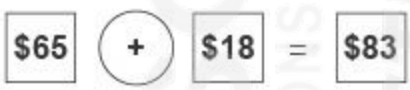
Francis would receive **$18** in change.

4. 

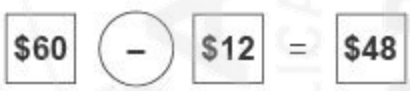
The pencil costs **25¢**.

5. 

The muffin costs **70¢**.

6. 

He had **$83** at first.

7. 

The pair of sunglasses cost **$48**.

8. 

The bicycle costs **$9** more than the skate scooter.

9. 

He spent **95¢** altogether.

10. 

He earned **$48** in all.

11. 

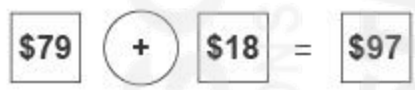
She spent **$19** altogether.

12. 

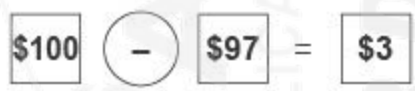
He needs **30¢** more.

13. 

She paid **$15**.

14. (a) 

She needs **$97** to pay for both items.

(b) 

She got **$3** back.

Challenge

Exercise 1

1. Amount Jamie has
= $5 + $5
= $10

Amount Siti has
= $10

Amount Ying Ying has
= 6 × $2
= $12

Ying Ying has enough money to buy the doll.

2.

Way	Combination
1	$10, $5, $1
2	$10, $2, $2, $2
3	$10, $2, $1, $1, $1, $1
4	$10, $2, $2, $1, $1
5	$5, $5, $5, $1
6	$5, $5, $2, $2, $2
7	$5, $5, $2, $2, $1, $1
8	$5, $5, $2, $1, $1, $1, $1
9	$5, $2, $2, $2, $2, $2, $1
10	$5, $2, $2, $2, $2, $1, $1, $1
11	$2, $2, $2, $2, $2, $2, $1, $1, $1, $1

There are **11** possible ways.

3.  +  +  = $21

$21 = $7 + $7 + $7

∴  = $7

 +  +  = $19

$7 + $7 +  = $19

$14 +  = $19

∴  = $19 – $14
= **$5**

4. (a) 40¢ + 60¢ = 100¢
= $1
He can buy a **ruler** and a **notebook**.

(b) 40¢ + 40¢ = 80¢
George will spend **80¢**.

(c) 60¢ + 60¢ = 120¢
= $1.20
No.

5.  +  +  +  = $80

$20 + $20 + $20 + $20 = $80

 = **$20**

 –  = $11

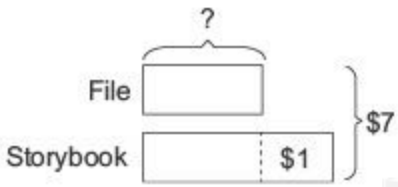
$20 –  = $11

 = $20 – $11
= **$9**

6. 

7. $50 + $9 = $59
$60 – $59 = $1
He would have **$1** in change.

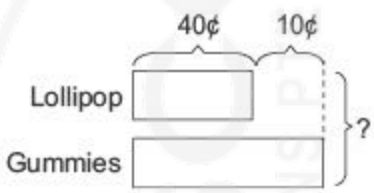
8. $10 – $3 = $7
The file and the storybook cost $7 altogether.



2 units = $7 – $1
= $6
$6 = $3 + $3
1 unit = $3

The file cost **$3**.

9.



40¢ + 10¢ = 50¢
The packet of gummies cost 50¢.

40¢ + 50¢ = 90¢
He spent **90¢** altogether.

10. 2 × $8 = $16
2 × $10 = $20
$16 + $20 = $36

He spent **$36** altogether.

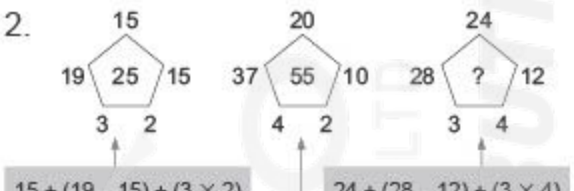
Challenging Problems

1.

20	15	12	3	10	8
8	10	12	15	20	
20	15	12	10		
∴ **12**	**15**	**20**			

(Reverse the numbers and remove the smallest number to form the next line below.)

2.



15 + (19 – 15) + (3 × 2)
= 15 + 4 + 6
= 25

20 + (37 – 10) + (4 × 2)
= 20 + 27 + 8
= 55

24 + (28 – 12) + (3 × 4)
= 24 + 16 + 12
= 52

The missing number is **52**.

3.

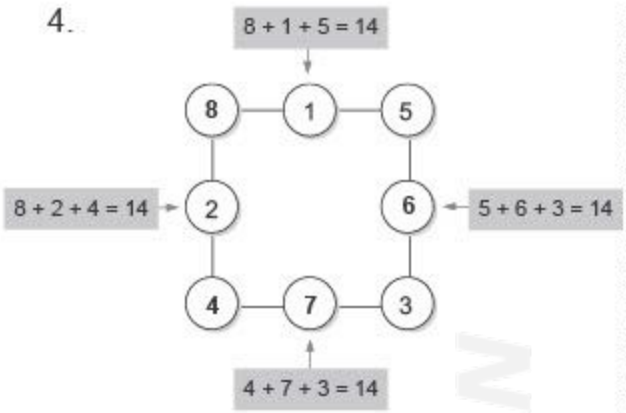
2 units = 26 – 6
= 20

20 = 10 + 10
1 unit = 10

Smaller number = 10
Greater number = 10 + 6
= 16

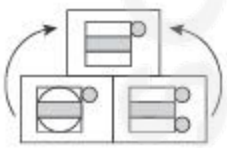
The two numbers are **10** and **16**.

4.



5.

Common shapes from bottom 2 squares are carried forward to the top square that sits between them;



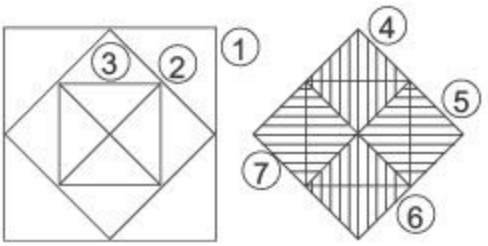
Then different shapes/details from bottom 2 squares are removed.

6. (a) $34 + 50 = 84 \longrightarrow$ L
(b) $45 - 30 = 15 \longrightarrow$ C
(c) $30 + 12 = 42 \longrightarrow$ O
(d) $60 - 19 = 41 \longrightarrow$ A

$\therefore$ $\frac{\mathbf{C}}{15}$ $\frac{\mathbf{O}}{42}$ $\frac{\mathbf{A}}{41}$ $\frac{\mathbf{L}}{84}$

7.

8.



There are **7** squares in the figure.

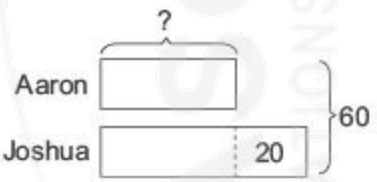
9. (a) $6 - 3 = 3$
There are **3** swordtails.

(b) $13 - 10 = 3$
He gave away **3** angelfish.

10.

Set 1	**20¢**	**20¢**	**20¢**	**20¢**
Set 2	**50¢**	**20¢**	**5¢**	**5¢**
Set 3	**50¢**	**10¢**	**10¢**	**10¢**

11.



2 units = 60 – 20
= 40 marbles

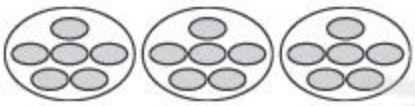
40 = 20 + 20
1 unit = 20 marbles

Aaron has **20** marbles.

12. \$20 – \$11 = \$9
\$9 + \$5 = \$14
He has **\$14** in the end.

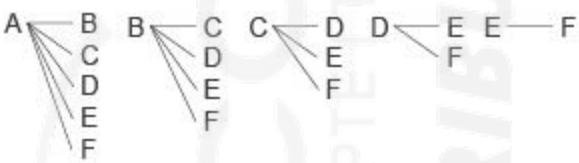
13. 10 cm – 3 cm = 7 cm
Pencil A is 7 cm long.

7 cm – 2 cm = 5 cm
Pencil B is **5 cm** long.

14. 

3 × 6 = 18
∴ 18 – 5 = 13
Esther had **13** cookies left.

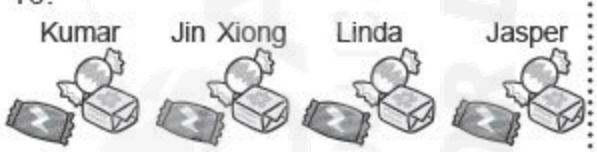
15.



5 + 4 + 3 + 2 + 1 = 15

15 matches were played altogether.

16.



4 × 3 = 12
∴ 2 + 12 = 14

He had **14** sweets at first.

17. Groups of 3 → 3, 6, 9, (12), 15

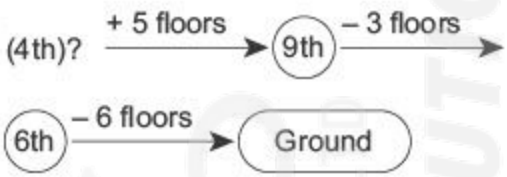
Groups of 5 plus 2 → 7, (12), 17

Thomas had **12** jelly beans.

18. $25 → $10 + $5 + $5 + $5
(4 notes)

She gave the cashier **3** five-dollar notes.

19.



Mavis' flat is on the **4th floor**.

Review Assessment 1

Section A

1. **(3)**
   3 tens 11 ones = 41

2. **(4)**
   6 tens 14 ones = 74
   6 tens 14 ones is between 75 and 73.

3. **(4)**
   1 ten 19 ones + 5 tens
   = 29 + 50
   = 79

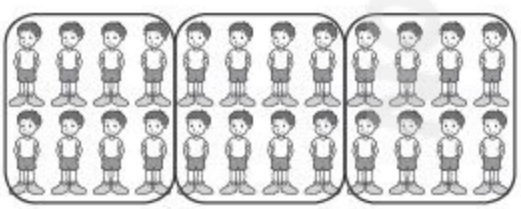
4. **(1)**
   14 + 29 = 43

5. **(2)**
   41 + 6 = 47

6. **(2)**
   Option (1): 65 = 50 + 15 (✓)
   Option (2): 24 + 9 = 34 (✗)
   Option (3): 80 – 11 = 69 (✓)
   Option (4): 45 = 50 – 5 (✓)

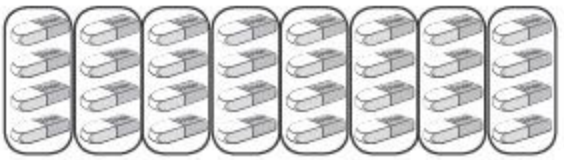
7. **(3)**
   5 groups of 4 is the same as 5 × 4.

8. **(2)**



There are 8 boys in each group.

9. **(4)**



There are 4 erasers in each box.

10. **(1)**
    2 + 2 + 2 + 2 + 2 + 2
    There are 6 groups of 2 flowers.

11. **(2)**
    40 – 24 = 16
    24 and 16 ones make 40.

12. **(4)**
    The figure is made up 4 types of shapes.

13. **(2)**
    10 – 1 = 9
    There are 9 fewer triangles than circles.

14. **(1)**
    52 – 45 = 7
    7 and 45 make 52.

15. **(2)**
    14 – 5 = 9
    The toothbrush is 9 cm longer than the toothpaste.

16. **(3)**
    The kite cost $31.

17. **(4)**
    9 – 5 = 4
    There are 4 more pupils in Primary 1B than Primary 1C attending the classes.

18. **(4)**
30 minutes after 12 noon is 12:30 pm.

19. **(1)**
$1 – 65¢ = 35¢
He would receive 35¢ in change.

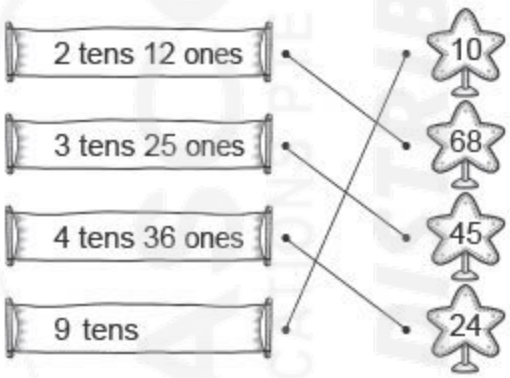
20. **(3)**
Jack is 3rd from the right.

Section B

21. (a) Seventy-eight
(b) One hundred

22. 86, 63, 49, 41

23.



24. 64 – 12 = **52**

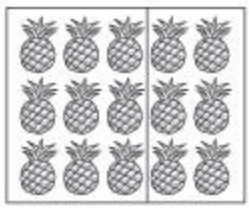
25.

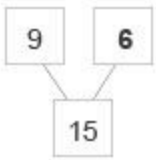
43	**+**	**11**	=	**54**
54	**–**	**11**	=	**43**

or

11	**+**	**43**	=	**54**
54	**–**	**43**	=	**11**

26.

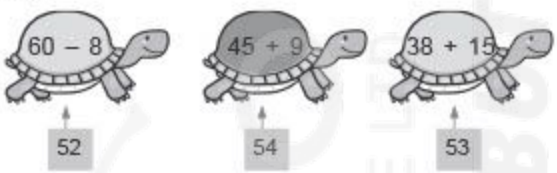




27. 50 – 38 = 12
= 1 ten 2 ones

1 tens **2** ones and 38 ones make 5 tens.

28.

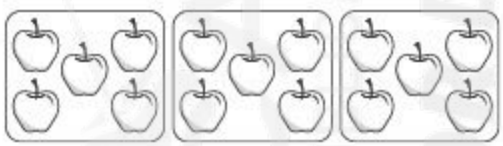


(Greatest value)

29. (a) 60 **+** 12 = 72

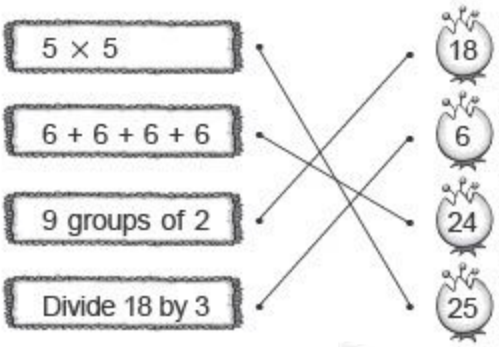
(b) 54 **–** 18 = 36

30.



31.

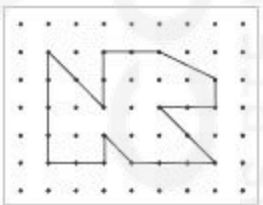
32.



33. 3 × 7 = 21
There were **21** apples altogether.

34. 13 – 6 = 7
There are **7** more half circles and triangles than squares.

35.



36.

5th

37. Pen A is shorter than Pen **C** but longer than Pen **B**.

38. 10  = $5

7  = $1.40

5  = $0.50

$5 + $1.40 + $0.50 = $6.90
He saved **$6.90** altogether.

39.

40. $15 + $18 + $15 = $48
The 3 boys saved **$48** altogether.

Section C

41. **70** – **15** = **55**

Jason collected **55** stamps.

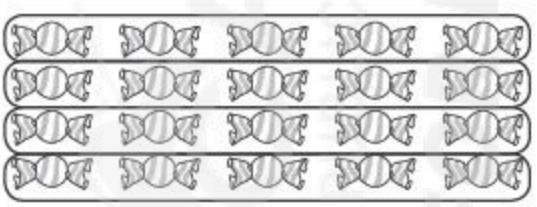
42. **48** + **15** = **63**

Mandy sewed **63** skirts in a month.

43. **4** × **$8** = **$32**

The wallets cost him **$32**.

44.



Each child received **5** sweets.

45. **12** + **10** + **8** = **30**

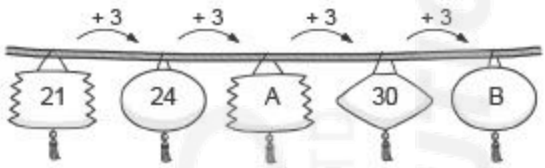
30 people were at the swimming pool altogether.

Review Assessment 2

Section A

1. **(2)**
   21 – 7 = 14
   There are 14 more television sets than radios.

2. **(1)**



   A = 24 + 3
   = 27

   B = 30 + 3
   = 33

3. **(2)**
   80 – 14 = 66
   14 more than 66 is 8 tens.

4. **(2)**
   76 + 9 + 5 = 90
   = 9 tens

   The sum of 7 tens 6 ones, 9 ones and 5 ones is 9 tens.

5. **(4)**
   Option (1): 50 – 35 = 15
   Option (2): 27 + 18 = 45
   Option (3): 80 – 45 = 35
   Option (4): 19 + 6 = 25 (✓)

   Twenty-five is the same as 19 + 6.

6. **(4)**
   Option (1): 19 + 10 = 29 (✓)
   Option (2): 29 – 10 = 19 (✓)
   Option (3): 29 – 19 = 10 (✓)
   Option (4): 29 + 10 = 39 (✗)

7. **(2)**
   2 tens 15 ones = 35
   5 × 7 = 35

   5 groups of 7 is the same as 2 tens 15 ones.

8. **(4)**
   There are 8 groups of 2 cupcakes.

9. **(3)**
   6 fours is the same as 12 groups of 2.

10. **(3)**

   There are 5 ice-cream in each group.

11. **(1)**
   70 – 63 = 7
   63 and 7 make 70.

12. **(2)**

   B has the same shapes.

13. **(2)**
   7 – 4 = 3
   There are 3 more triangles than half circles in the picture.

14. **(3)**

5  = $2.50

6  = $1.20

$2.50 + $1.20 = $3.70

15. **(3)**
4 cm + 4 cm + 4 cm = 12 cm
The comb is 12 cm long.

16. **(4)**
James goes to the library at 2:25 pm.

17. **(2)**
4 × $2 = $8
She can buy the cap.

18. **(4)**
58 – 25 = 33
33 more children prefer red and blue than yellow.

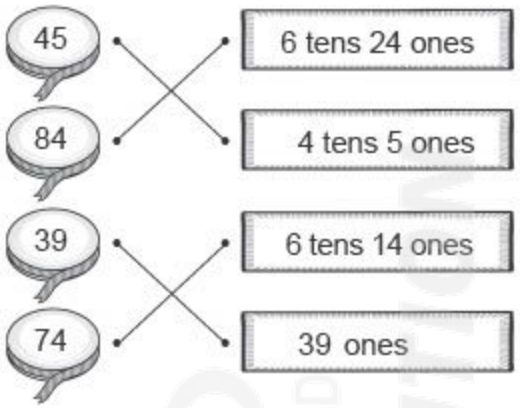
19. **(3)**
100 – 42 = 58
3 tens 12 ones and 58 ones make 10 tens.

20. **(2)**
Spaceship B is in the 5th position.

Section B

21. (a) Forty-two
(b) Ninety-seven

22.



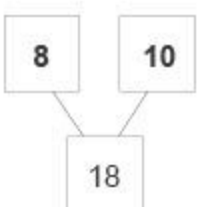
23. A = 18 + 7 = 25
B = 50 – 29 = 21
C = 48 + 12 = 60
D = 63 – 32 = 31
Their values arranged from the greatest to the smallest are:
C, D, A, B

24. **6** + **15** = **21**
21 – **6** = **15**

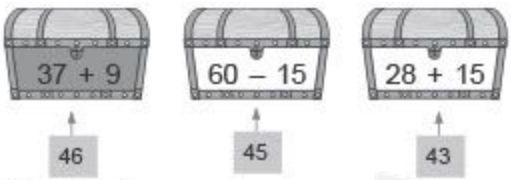
or

15 + **6** = **21**
21 – **15** = **6**

25.



26. 69 – 40 = 29
4 tens and **29** ones make 6 tens 9 ones.

27. 

(Greatest value)

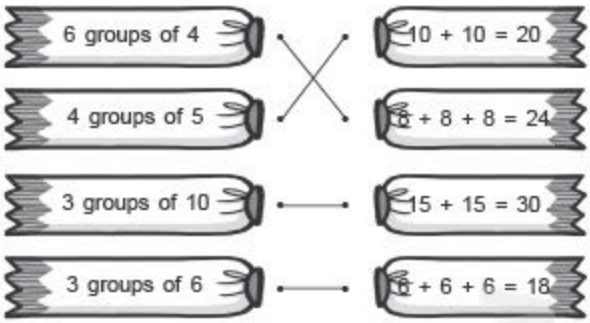
28. (a) 49 + **13** = 62 ← 62 – 49 = 13

(b) **42** – 27 = 15 ← 27 + 15 = 42

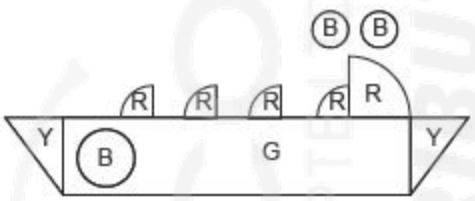
29. 

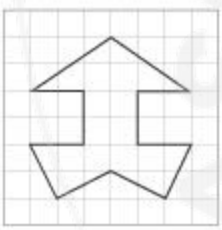
30. 

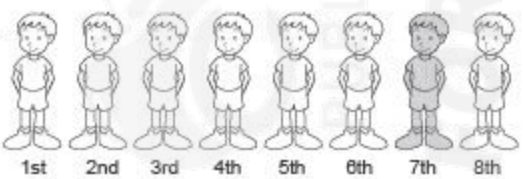
There are **3** groups of 9.

31. 

32. 8 × 3 = 24
She bought **24** handkerchiefs altogether.

33. 

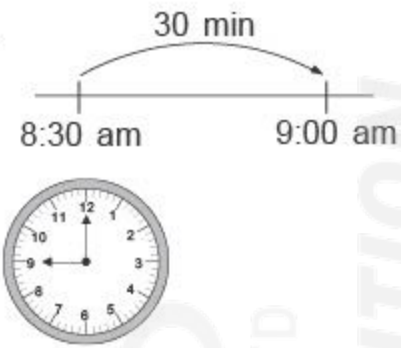
34. 

35. 

36. (a) 15 cm – 5 cm = 10 cm
The marker pen is **10** cm shorter than the rod.

(b) 5 cm + 5 cm + 5 cm = 15 cm
The rod is as long as **3** marker pens.

37. 

38. 

39. $10 – $6 = $4
He would received **$4** in change.

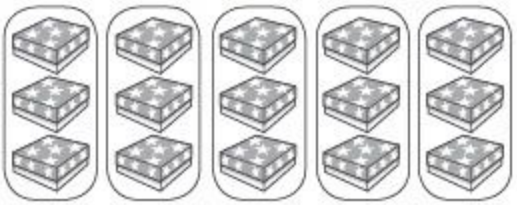
40. 32 – 23 = 9
9 more people visited Sentosa on Sunday than on Friday.

Section C

41. **48** + **15** = **63**
Ken bought **63** pencils.

42. **80** – **12** = **68**
She had **68** necklaces at first.

43. **5** × **6** = **30**
Aunt Annie had **30** flowers.

44. 
There were **5** children.

45. **15** + **10** + **4** = **29**
She bought **29** items altogether.

Review Assessment 3

Section A

1. **(2)**
   62 – 5 = 57
   = 5 tens 7 ones

   5 more than 5 tens 7 ones is 62.

2. **(2)**
   12 – 5 = 7
   The answer is 7.

3. **(3)**
   9 cm – 6 cm = 3 cm
   The marker pen is 3 cm shorter than the ribbon.

4. **(2)**
   25 + [55] = 80 ← 80 – 25 = 55

5. **(3)**
   6 + 1 = 7
   The total number of rectangles and squares is 7.

6. **(4)**
   8 + 8 = 16
   The number is eight.

7. **(3)**
   The figure below is made up of a square and a quarter circle.

8. **(3)**
   Duck C is in the 7th position.

9. **(4)**
   There is $3.20 in the purse.

10. **(3)**
    7 + 7 + 7 + 7 = [4] × 7

11. **(4)**
    10 + 9 = 19
    Jason and Marty have 19 toy soldiers altogether.

12. **(4)**
    12 – 8 = 4
    Alan has 4 more toy soldiers than Ali.

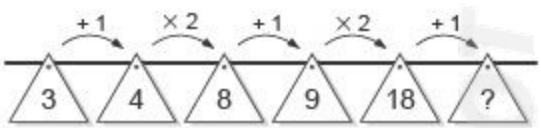
13. **(3)**
    3 × 7 = 21
    Alex has 21 marbles altogether.

14. **(3)**
    Mike's grandfather begins his daily exercise at 6:45 am.

15. **(4)**
    Option (1): 7 fives (✓)
    Option (2): 7 groups of 5 (✓)
    Option (3): 7 × 5 (✓)
    Option (4): 5 groups of 7 (✗)

16. **(1)**
    60 – 38 = 22
    = 1 ten 12 ones

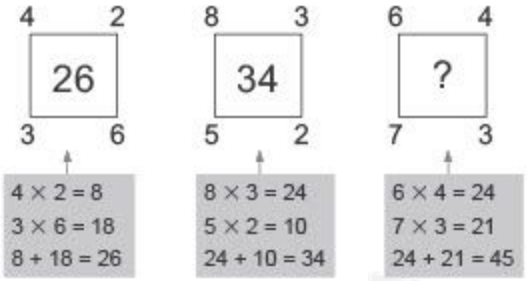
17. **(2)**



    18 + 1 = 19

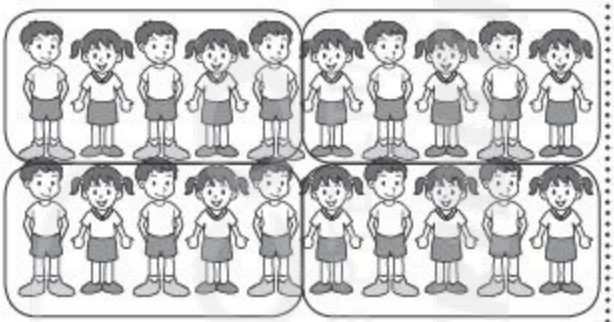
    The number that comes next is 19.

18. **(2)**



The missing number is 45.

19. **(4)**



There will be 4 groups of children.

20. **(3)**

5 × $2 = $10

$10 – $7 = $3

= $1 + $1 + $1

He has 3 one-dollar coins left.

Section B

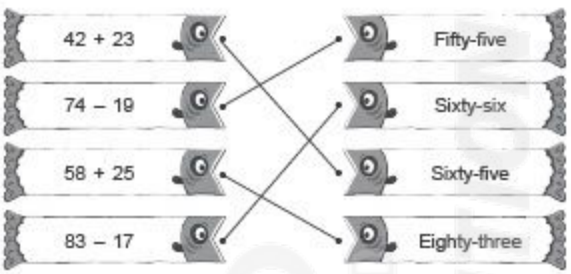
21. (a) 90 (–) 16 = 74

(b) 48 (+) 39 = 87

22.

3		6
+	5	**6**
	9	2

23.



24. **2** + **2** + **2** + **2** + **2**

= **10**

5 twos = **10**

25. **15** (+) **36** = **51**

51 (–) **15** = **36**

or

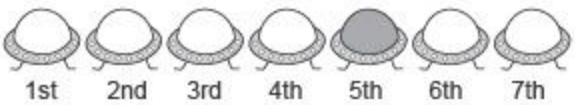
36 (+) **15** = **51**

51 (–) **36** = **15**

26. (a) 8 cm + 6 cm = 14 cm
The total length of Pencil A and Pencil C is **14** cm.

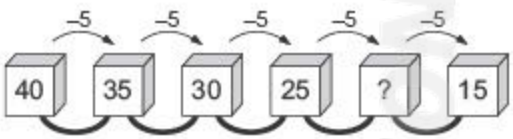
(b) Pencil **A**, Pencil **C**, Pencil **B** (Longest)

27.



28. 3 + 5 = 8
The total number of triangles and circles is **8**.

29.



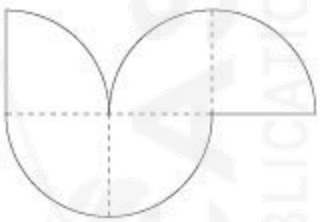
25 – 5 = 20
The missing number is **20**.

30. (a) **$4** (b) **$20.50**

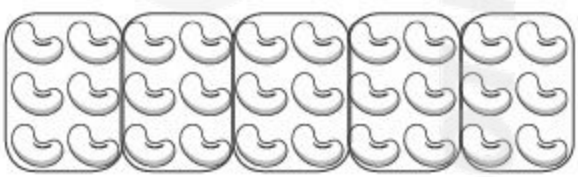
31. (a) The greatest number is **88**.

(b) **64** is less than 88 but more than 39.

32.



33.

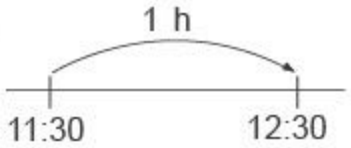


There are **6** jelly beans in each bowl.

34.

37 + 25 = 62
= 5 tens 12 ones

35.



The actual time now is **12:30**.

36. 90¢ – 35¢ = 55¢

The file costs **55¢** more than the ruler.

37. **Krishnan** and **Jian Xiong** blew the same number of balloons.

38. 12 + 10 + 6 + 10 = 38

The four children blew **38** balloons altogether.

39. 3 × 4 = 12

Sharlene has **12** fish altogether.

40. $20 = 10 two-dollar notes

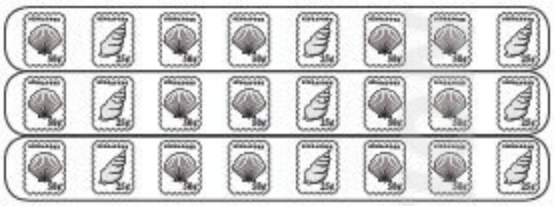
I can change **10** two-dollar notes with the amount of money.

Section C

41. 63 + 24 = 87

She had **87** hats at first.

42.



Each page has **8** stamps.

43. 75 − 48 = 27

She had **27** beads left.

44. 10 × 4 = 40

There are **40** wheels altogether.

45. 26 + 14 + 30 = 70

They bought **70** candies altogether.

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