



AFAQ SUN SERIES

Based on Single National Curriculum 2020

KEYBOOK

Mathematics

1



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
شروع اللہ کا نام لے کر جو بڑا مہربان، نہایت رحم والا ہے۔



A F A Q S U N S E R I E S

Mathematics

Keybook

1

Based on Single National Curriculum 2020



ASSOCIATION FOR ACADEMIC QUALITY

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Learning Check 1.1

1 Count the objects and match with the correct numbers.

0

1

2

3

4

5

6

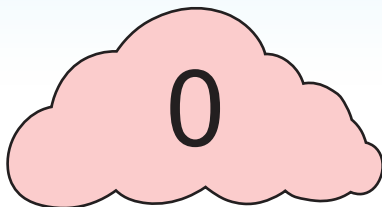
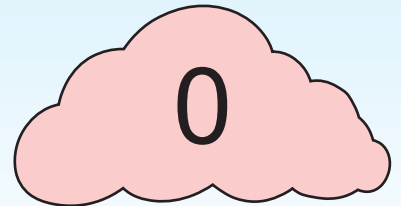
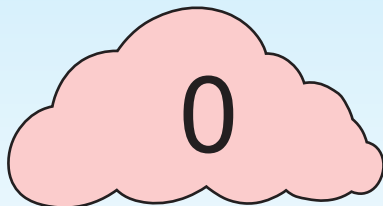
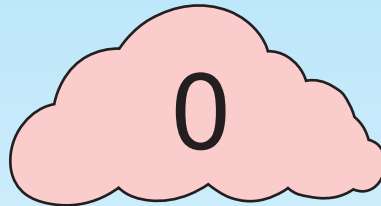
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8

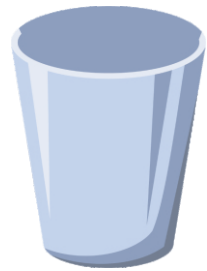
9

1

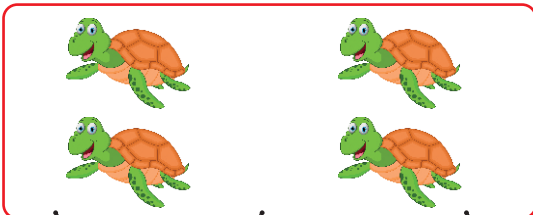
2 Identify and colour the clouds having the number 0.



3 Tick (✓) the pencil holder having 0 pencils in it.

☒

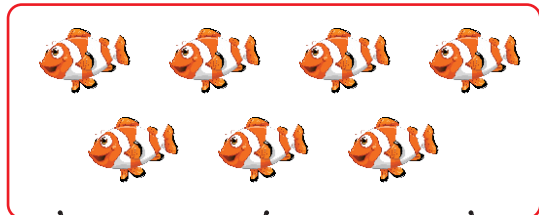
4 Count and colour the boxes with the correct number of objects.



5

6

4



7

5

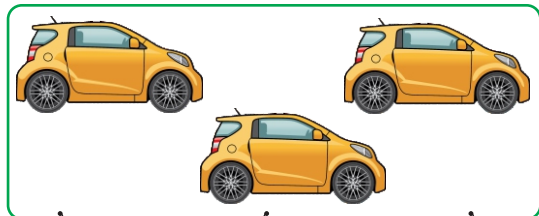
4



3

4

2



5

3

1



7

6

4

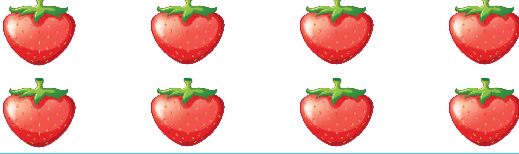


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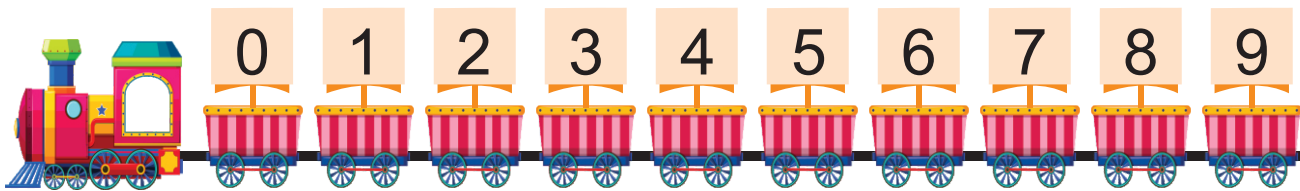
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5

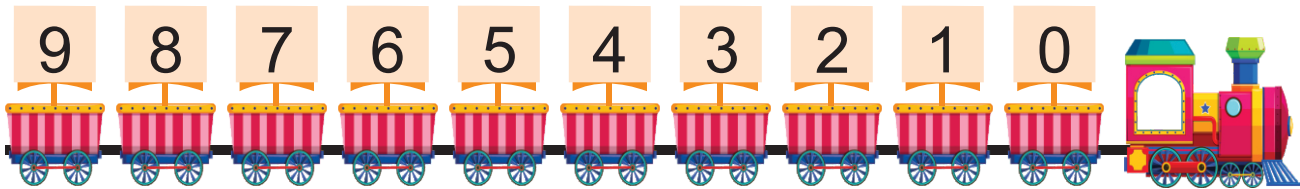
5 Count the objects and match with the number in words.

	3	five
	5	six
	4	three
	0	zero
	6	eight
	2	four
	7	nine
	1	two
	8	seven
	9	one

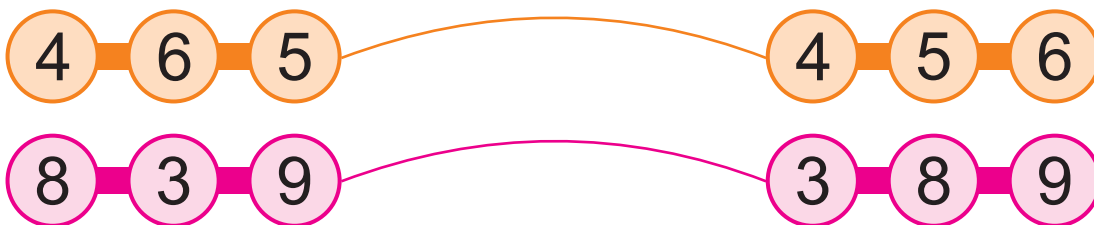
- 6 Count forward from 0 to 9 and write the missing numbers.



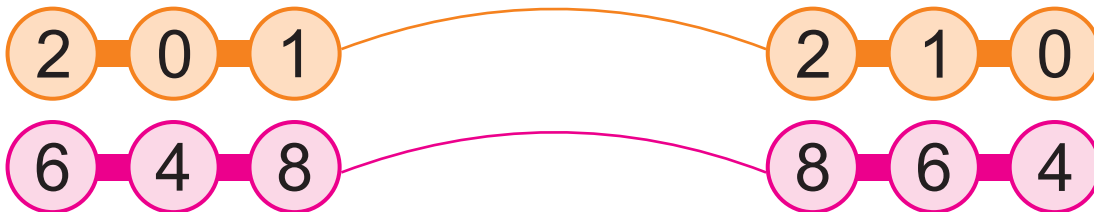
- 7 Count backward from 9 to 0 and write the missing numbers.



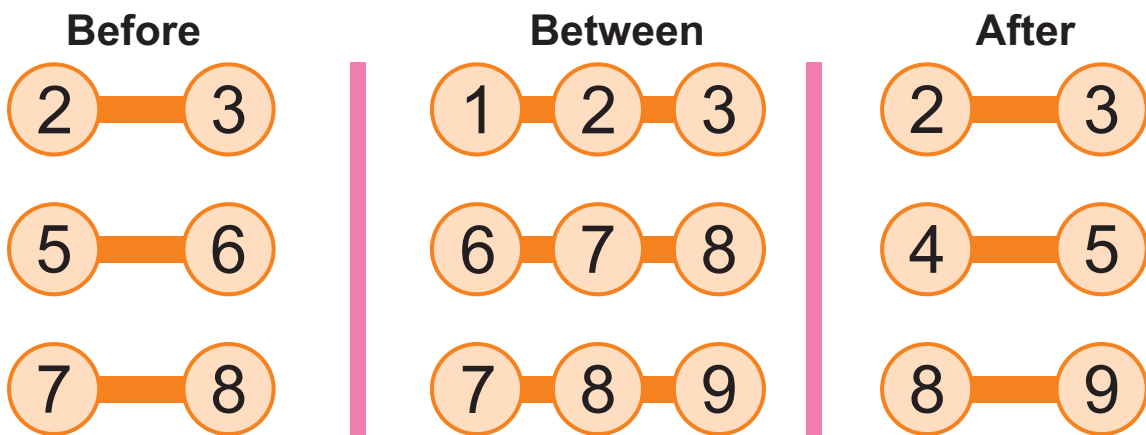
- 8 Write the given numbers in ascending order.



- 9 Write the given numbers in descending order.

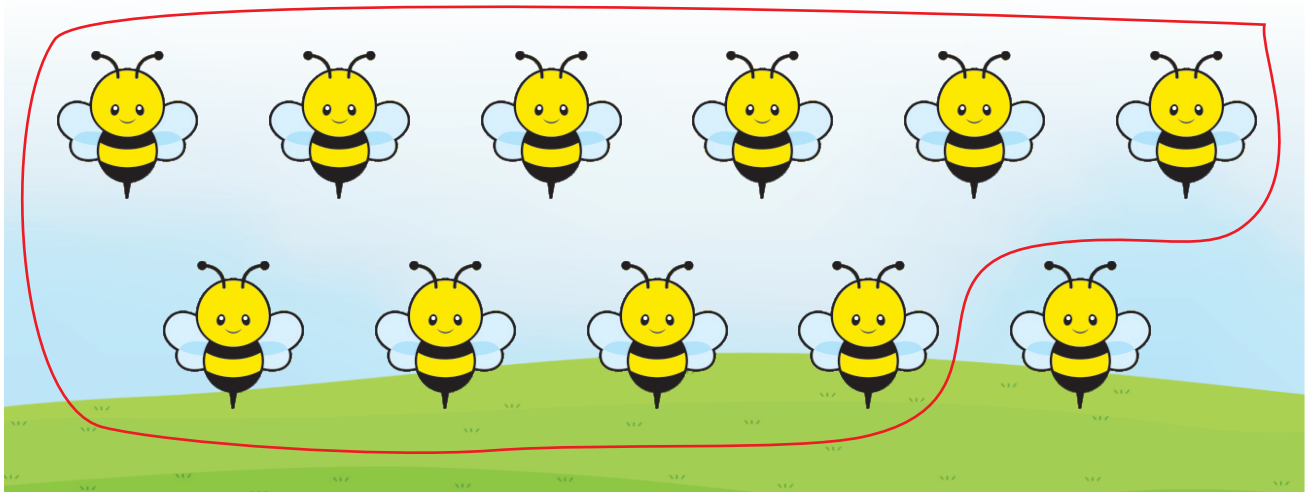


- 10 Write the number that comes before, between and after the given numbers.

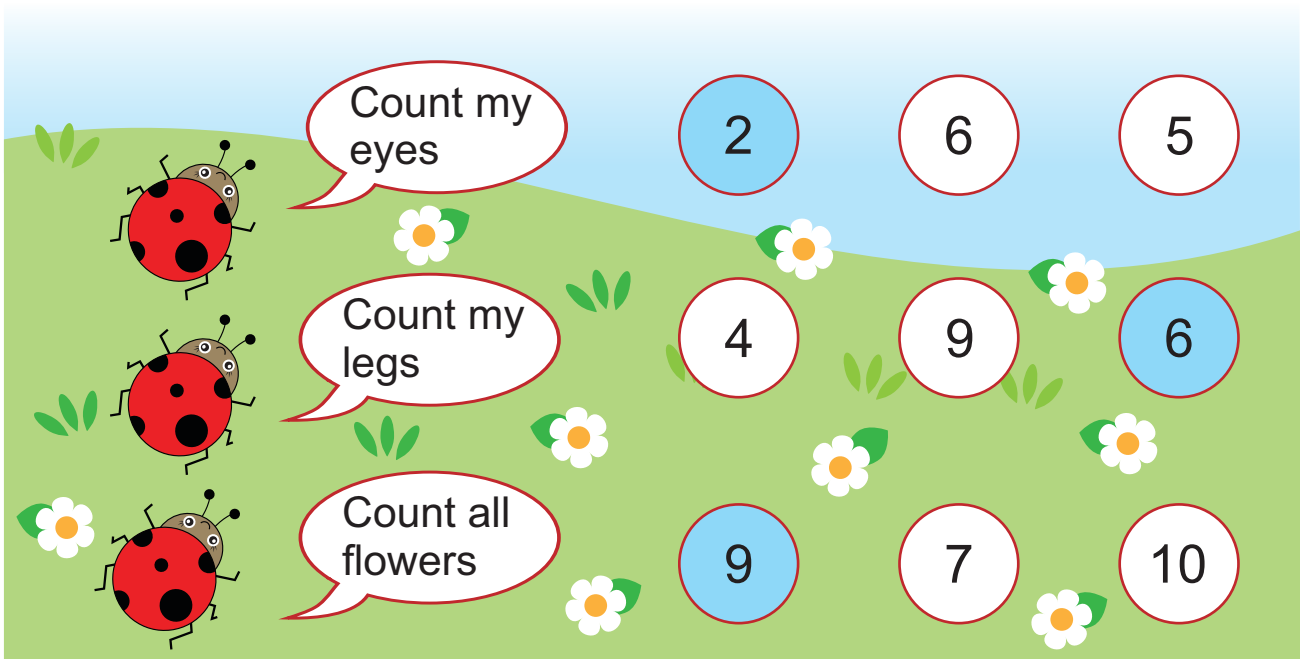


Learning Check 1.2

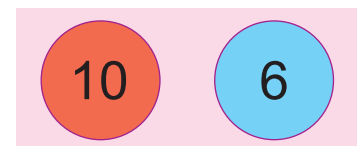
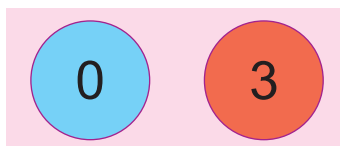
1 Count and circle 10 bees.



2 Count and colour the correct numbers.



3 Compare and colour the greater number red and the smaller number blue.



4 Order the given numbers in ascending and descending order.

2	0	3
Ascending order		
0	2	3
Descending order		
3	2	0

8	10	6
Ascending order		
6	8	10
Descending order		
10	8	6

Learning Check 1.3

								
								
18								

										
										
										
32										

									
									
									
									
									
47									
7									

2 Write the number that comes before, between and after the given numbers.

Before

2

3

14

15

26

27

31

32

43

44

48

49

Between

13

14

15

23

24

25

26

27

28

35

36

37

41

42

43

8

9

10

After

1

2

13

14

24

25

36

37

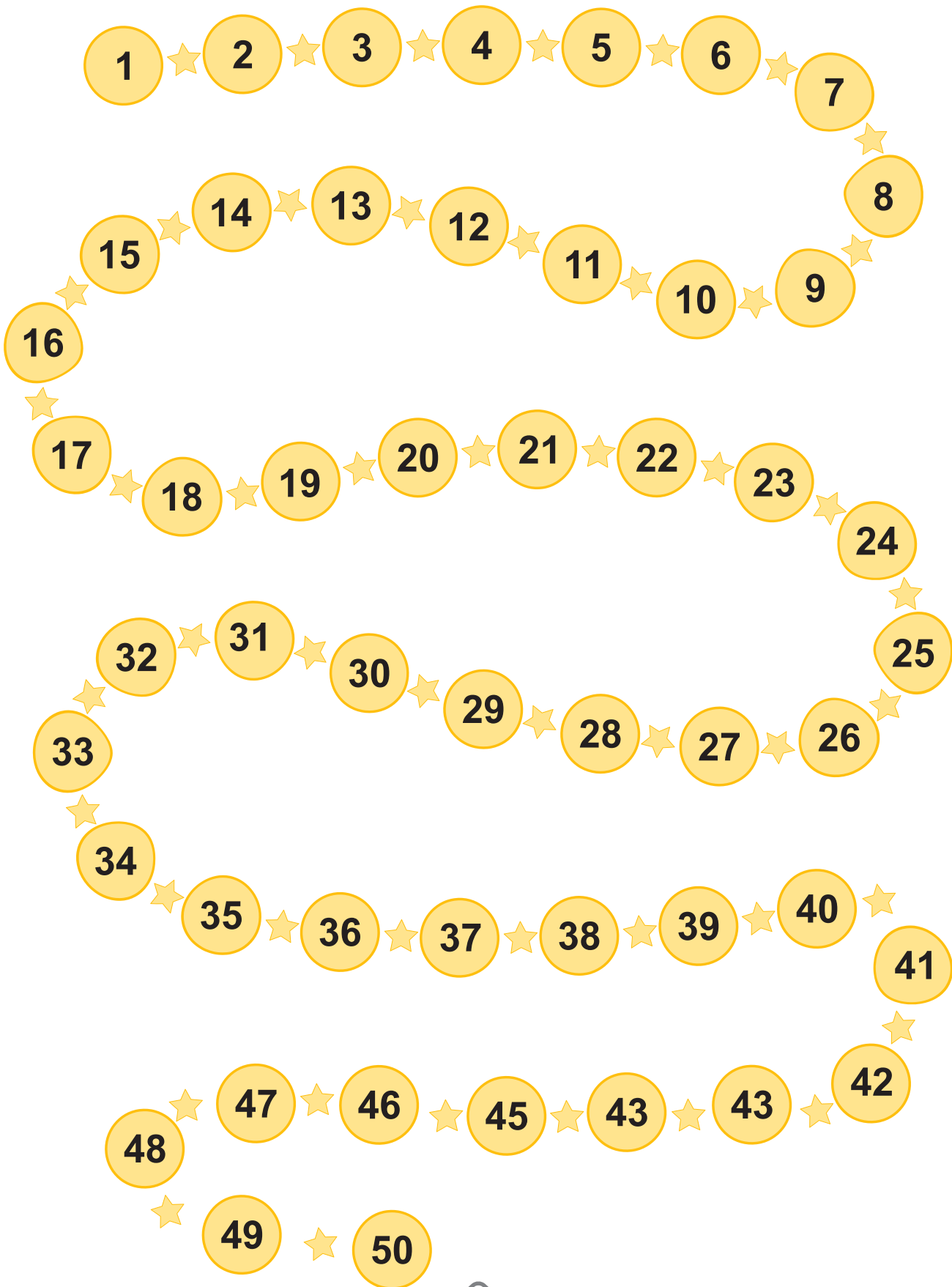
45

46

49

50

3 Write the missing numbers from 1-50.



Learning Check 1.4

1 Write what comes before the given numbers.

73	74
66	67
83	84

47	48
58	59
35	36

2 Write what comes after the given numbers.

7	8
18	19
39	40

58	59
60	61
84	85

3 Write what comes between the given numbers.

39	40	41
68	69	70

50	51	52
82	83	84

74	75	76
97	98	99

4 Write the place value of the coloured digit.

47 = Tens

69 = Ones

84 = Ones

50 = Tens

41 = Tens

36 = Ones

5 Write the given numbers in tens and ones.

a)

54	
Tens	Ones
5	4

b)

15	
Tens	Ones
1	5

c)

72	
Tens	Ones
7	2

d)

22	
Tens	Ones
2	2

e)

41	
Tens	Ones
4	1

f)

53	
Tens	Ones
5	3

g)

35	
Tens	Ones
3	5

h)

80	
Tens	Ones
8	0

i)

89	
Tens	Ones
8	9

6 Count forward and write the missing numbers.

a)	21	22	23	24	25	26	27	28	29	30
b)	54	55	56	57	58	59	60	61	62	63
c)	88	89	90	91	92	93	94	95	96	97

7 Count backward and write the missing numbers.

a)	34	33	32	31	30	29	28	27	26	25
b)	69	68	67	66	65	64	63	62	61	60
c)	98	97	96	95	94	93	92	91	90	89

8 Write the numbers 51-99 in the correct sequence.

51	52	53	54	55	56
57	58	59	60	61	62
63	64	65	66	67	68
69	70	71	72	73	74
75	76	77	78	76	80
81	82	83	84	85	86
87	88	89	90	91	92
93	94	95	96	97	98

99

Learning Check 1.5

1 Write 'smaller' or 'greater' in the blanks.

34 is smaller than 36.

89 is smaller than 98.

12 is smaller than 45.

10 is smaller than 19.

77 is greater than 67.

43 is smaller than 56.

23 is greater than 21.

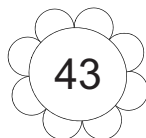
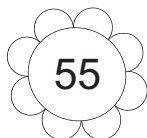
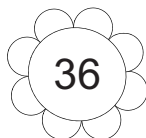
2 Compare and colour the star with the greatest number.



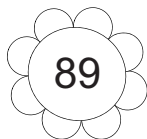
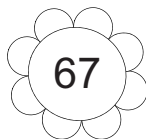
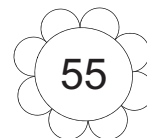
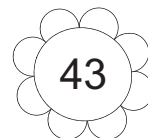
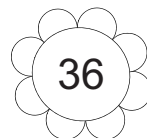
3 Compare and colour the star with the smallest number.



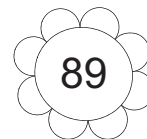
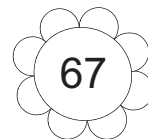
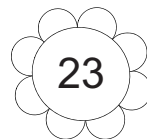
4 Write the numbers in ascending order.



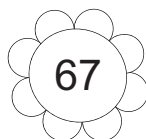
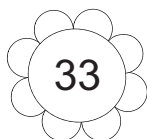
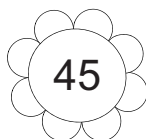
Answer:



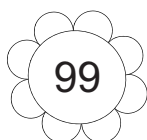
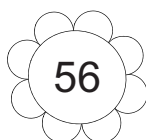
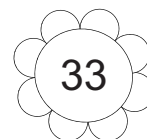
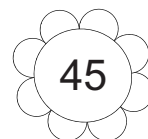
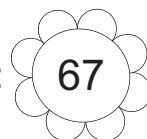
Answer:



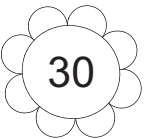
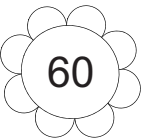
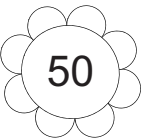
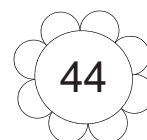
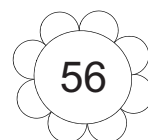
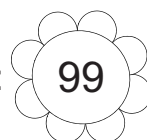
5 Write the numbers in descending order.



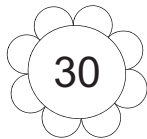
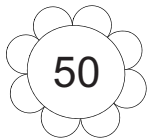
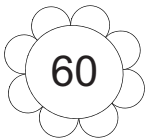
Answer:



Answer:

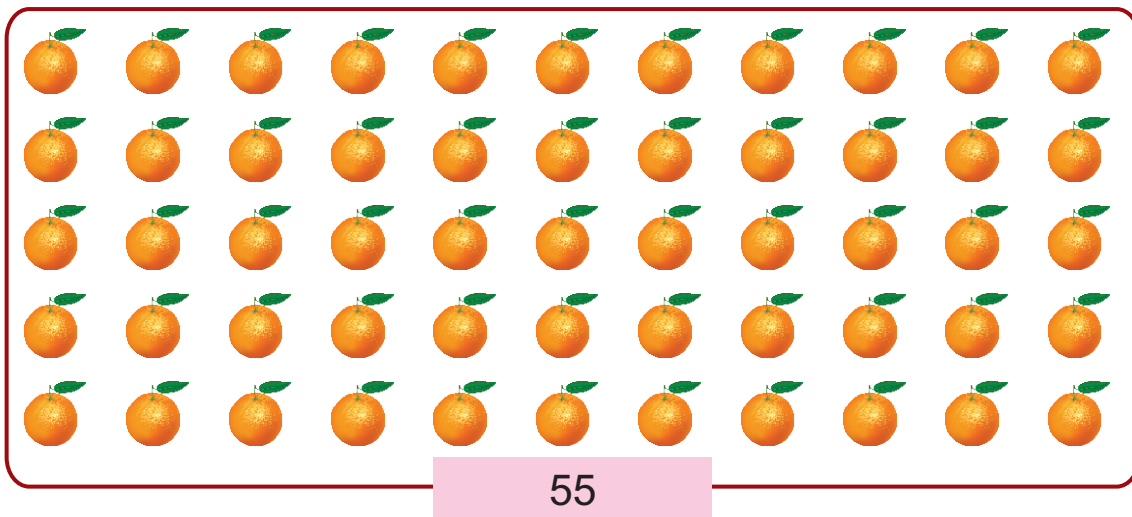
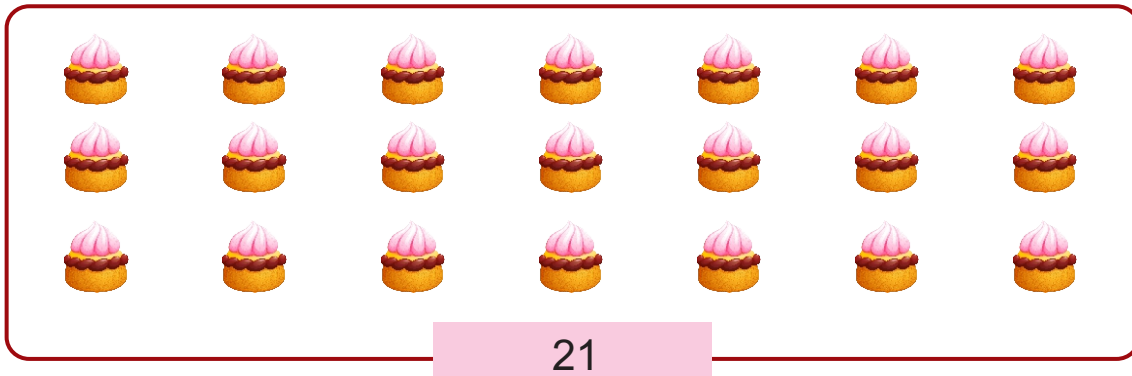


Answer:

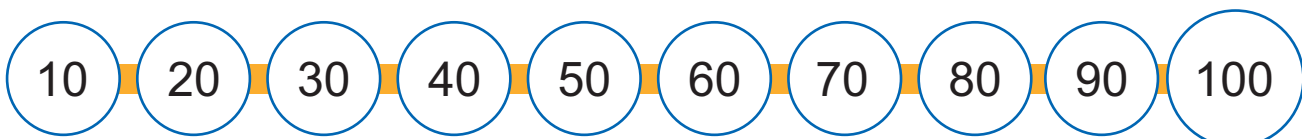


Learning Check 1.6

1 Count the objects and write the numbers.



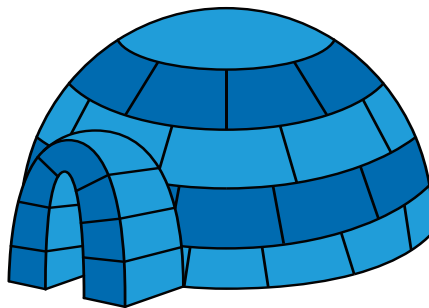
2 Count in tens and write the missing numbers.



3 Write the missing numbers from 1 to 100.



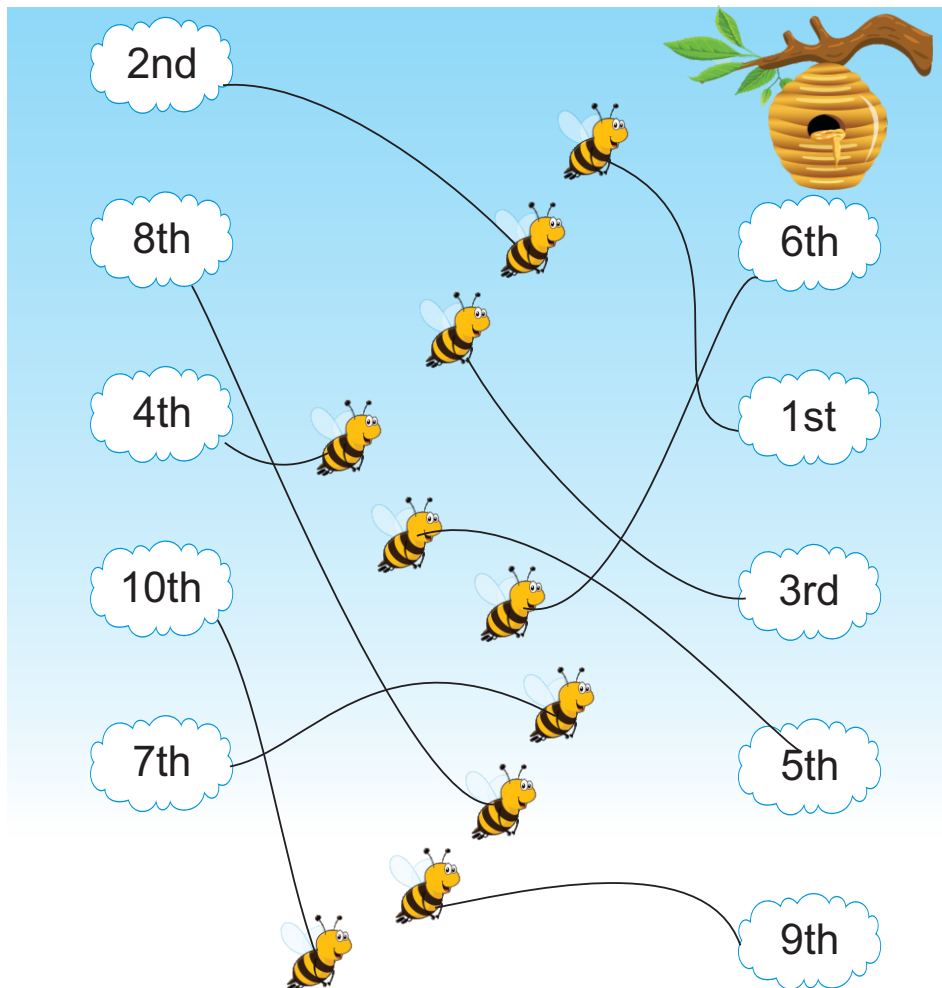
	43	42	41	40	39	38	37	36	35	34	33
	44	81	80	79	78	77	76	75	74	73	32
1	45	82								72	31
2	46	83								71	30
3	47	84								70	29
4	48	85								69	28
5	49	86								68	27
6	50	87								67	26
7	51	88								66	25
8	52	89	90	91	92	93	94			65	24
9	53	54	55	56	57	58	59	60	61	62	63
10	11	12	13	14	15	16	17	18	19	20	21
											22



100	99	98	97
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Learning Check 1.7

Match the bees with their correct ordinal numbers.



Learning Check 1.8

Match the objects one-to-one and then write 'less' or 'more' in the given boxes.

a)

less

more

b)

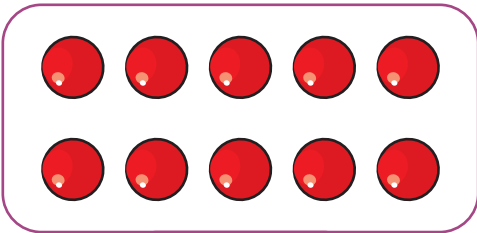
more

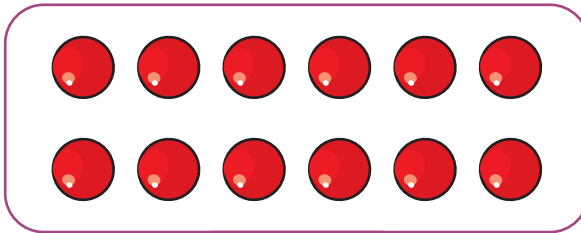
less

Learning Check 1.9

Count and write the number of the objects and fill in the blanks.

a)


10


12

12 is 2 more than 10.

10 is 2 less than 12.

b)


6


12


7

Red cups are 1 less than blue cups.

Green cups are 5 more than blue cups.

Red cups are 6 less than green cups.

Blue cups are 5 less than green cups.

Green cups are more than red and blue cups.

Unit check 1

1 Encircle the correct options.

a) The number 9 in words is nine.

i) two

ii) ten

iii) nine

iv) eight

b) The place value of the digit 2 in 27 is 20.

i) 20

ii) 2

iii) 72

iv) 27

c) Which number comes after 45?

- i) 44 **ii) 46** iii) 54 iv) 47

d) The position of the apple is 8th.



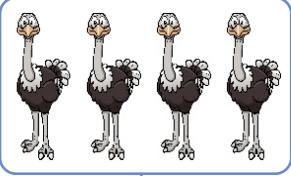
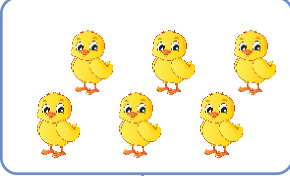
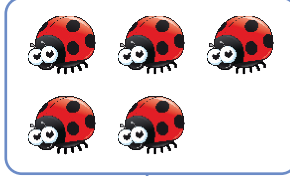
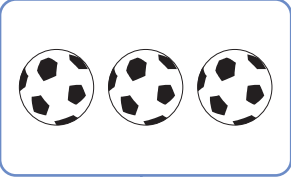
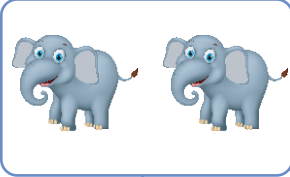
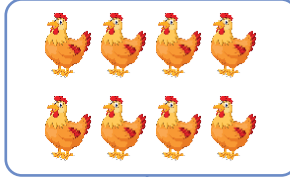
e) 8 is 6 more than 2.

- i) 10 **ii) 6** iii) 4 iv) 8

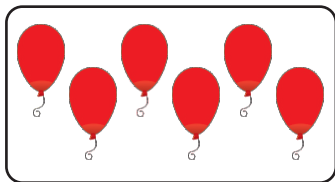
2 Write the numbers.

- a) 4 tens 5 ones 45
b) 7 tens and 1 one 71
c) 9 tens and 9 ones 99
d) 0 tens and 5 ones 5
e) 8 tens and 0 ones 80

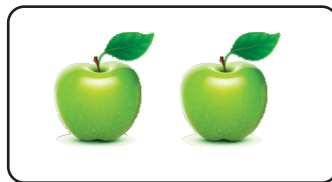
3 Count and write the numbers in words.

			
Four	Six	Seven	Five
			
Three	Two	Nine	Eight

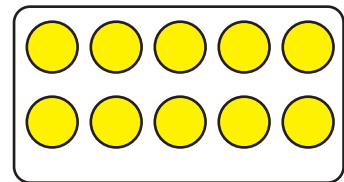
4 Read and draw.



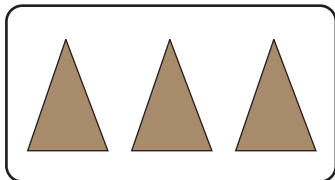
Six red balloons



Two green apples



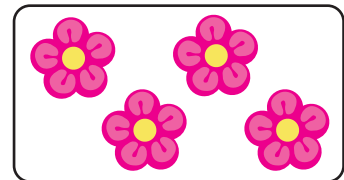
Ten yellow circles



Three brown triangles



Five blue stars



Four pink flowers

5 Compare and write the following numbers in increasing and decreasing order.

15 8 21

Ascending order

8 15 21

Descending order

21 15 8

67 76 56

Ascending order

56 67 76

Descending order

76 67 56

6 Complete the given sequence.

a) 25 — 26 — 27 — 28 — 29 — 30 — 31

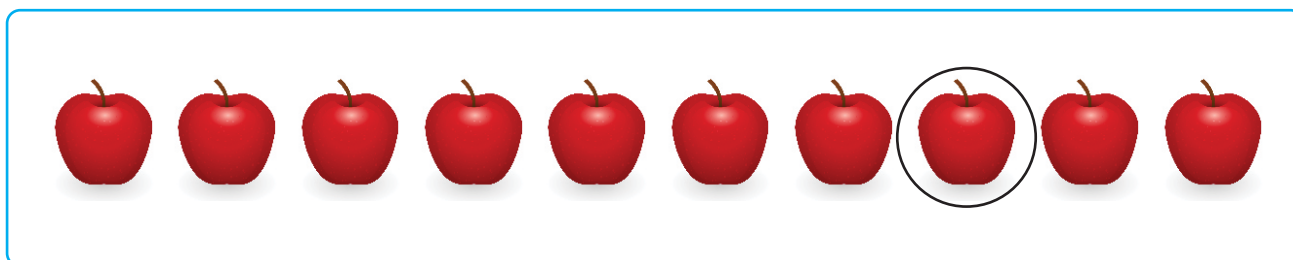
b) 78 — 79 — 80 — 81 — 82 — 83 — 84

c) 50 — 51 — 52 — 53 — 54 — 55 — 56

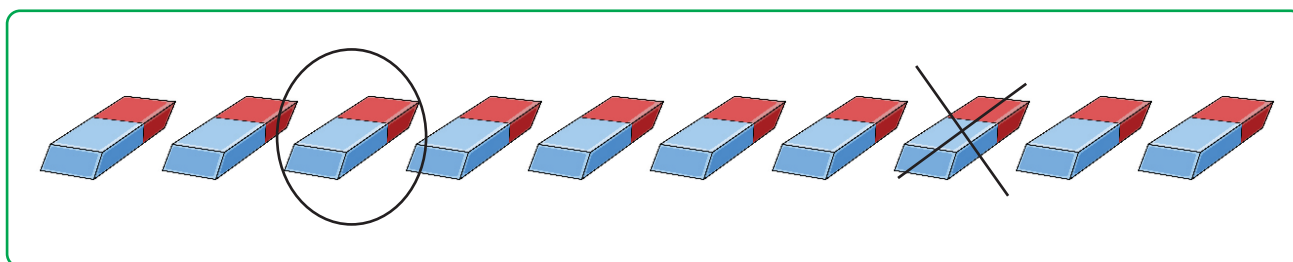
7 What number comes before, after and between.

	Before	14	15	28	29	39	40	
		61	62	85	86	9	10	
	After	91	92	44	45	62	63	
		76	77	39	40	47	48	
	Between	95	96	97		46	47	48
		73	74	75		88	89	90

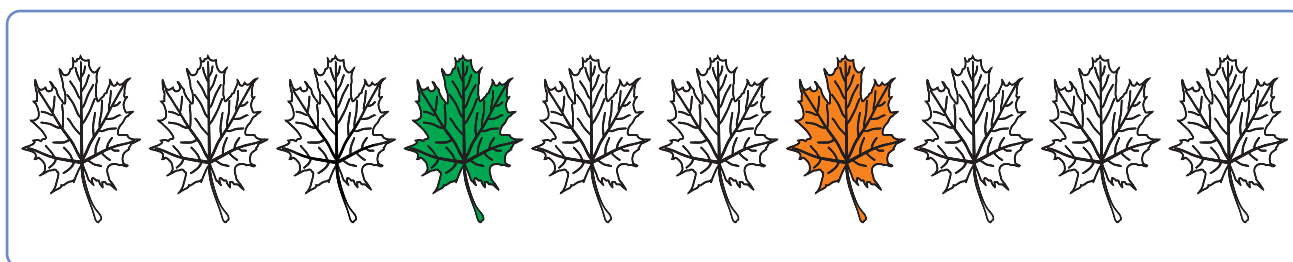
8 Circle the 8th apple from left to right.



9 Cross out the 9th eraser and circle the 2nd eraser from left to right.



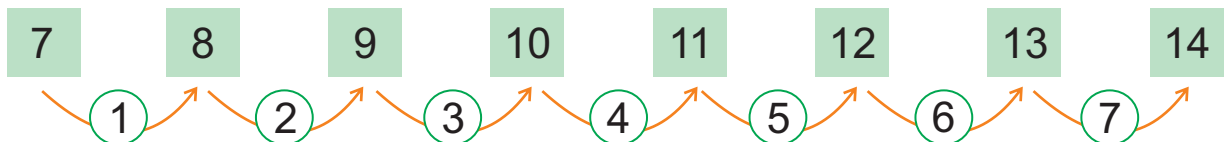
10 Colour the 4th leaf green and the 7th leaf orange from left to right.



Learning Check 2.1

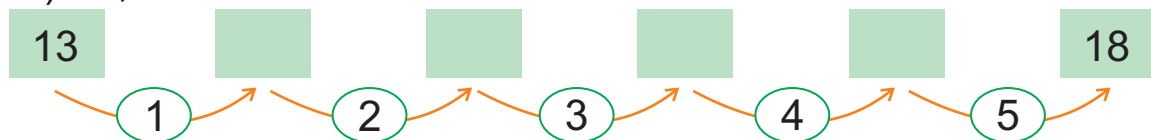
Compare the following numbers and write how much more one is than the other.

a) 7, 14



So, 14 is 7 more than 7.

b) 13, 18



So, 18 is 5 more than 13.

Learning Check 2.2

1 Count the objects and write the correct numbers. Then add using + and = in the boxes.

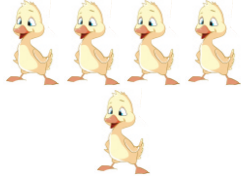
a)



and



equal



4

and

1

make

5

4

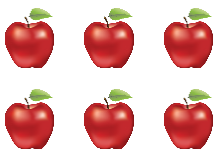
+

1

=

5

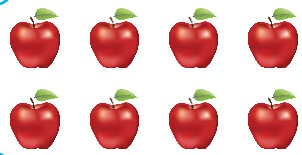
b)



and



equal



6

and

2

equal

8

6

+

2

=

8

2 Count and add these objects.

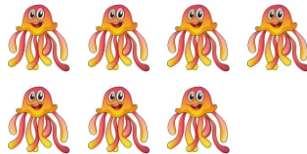
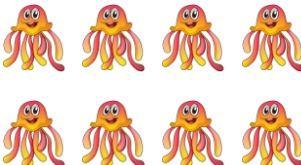
a


 and
 
 equal
 

4 + 3 = 7

$$\begin{array}{r}
 4 \\
 + 3 \\
 \hline
 7
 \end{array}$$

b


 and
 
 equal
 

7 + 1 = 8

$$\begin{array}{r}
 7 \\
 + 1 \\
 \hline
 8
 \end{array}$$

3 Add and match with the correct answers.

 	
2 + 2	
	
3 + 0	
 	
5 + 2	
 	
4 + 4	

(Connections: 2+2 to 4, 3+0 to 3, 5+2 to 7, 4+4 to 8)

4 Add and write the correct answers.

a

$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$$

b

$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

c

$$\begin{array}{r} 1 \\ + 7 \\ \hline 8 \end{array}$$

d

$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$

e

$$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$$

f $0 + 7 = 7$

g $5 + 3 = 8$

h $3 + 3 = 6$

i $2 + 1 = 3$

j $4 + 1 = 5$

k $6 + 3 = 9$

5 Look at the picture and write an addition sentence. Then solve it.

Red apples

= $\begin{array}{|c|} \hline 6 \\ \hline \end{array}$

Green apples

= + $\begin{array}{|c|} \hline 3 \\ \hline \end{array}$

Total number of apples =

$$\begin{array}{|c|} \hline 0 \\ \hline \begin{array}{|c|} \hline 6 \\ \hline \end{array} \\ + \begin{array}{|c|} \hline 3 \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline 9 \\ \hline \end{array} \end{array}$$



Learning Check 2.3

1 Add the following.

a)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 1 & 1 \\ \hline + & 0 & 7 \\ \hline 1 & 8 \\ \hline \end{array}$$

b)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 2 & 5 \\ \hline + & 0 & 2 \\ \hline 2 & 7 \\ \hline \end{array}$$

c)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 4 & 5 \\ \hline + & 0 & 3 \\ \hline 4 & 8 \\ \hline \end{array}$$

d)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 5 & 5 \\ \hline + & 0 & 4 \\ \hline 5 & 9 \\ \hline \end{array}$$

e)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 6 & 3 \\ \hline + & 0 & 6 \\ \hline 6 & 9 \\ \hline \end{array}$$

f)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 8 & 7 \\ \hline + & 0 & 1 \\ \hline 8 & 8 \\ \hline \end{array}$$

g)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 4 & 4 \\ \hline + & 0 & 1 \\ \hline 4 & 5 \\ \hline \end{array}$$

h)

$$\begin{array}{|c|c|} \hline T & O \\ \hline 8 & 4 \\ \hline + & 0 & 3 \\ \hline 8 & 7 \\ \hline \end{array}$$

2 Iqbal has 16 stamps. He got another 3 stamps from his brother. How many stamps does he have altogether?

Iqbal has stamps

= $\begin{array}{|c|c|} \hline T & O \\ \hline 1 & 6 \\ \hline \end{array}$

His brother gave him stamps

= + $\begin{array}{|c|c|} \hline & 3 \\ \hline \end{array}$

Total number of stamps

= $\begin{array}{|c|c|} \hline 1 & 9 \\ \hline \end{array}$



Learning Check 2.4

1 Add the following.

a)

T	O
5	7
+	2 0
7	7

b)

T	O
4	4
+	1 0
5	4

c)

T	O
5	9
+	4 0
9	9

d)

T	O
7	6
+	2 0
9	6

e)

T	O
2	5
+	6 0
8	5

f)

T	O
1	7
+	8 0
9	7

g)

T	O
6	4
+	3 0
9	4

h)

T	O
8	9
+	1 0
9	9

2 Haadia eats 13 almonds on Saturday and 20 almonds on Sunday. How many almonds does she eat altogether?

Almonds eaten on Saturday	=	<table> <tr> <td>T</td> <td>O</td> </tr> <tr> <td>1</td> <td>3</td> </tr> </table>	T	O	1	3
T	O					
1	3					
Almonds eaten on Sunday	= +	<table> <tr> <td>T</td> <td>O</td> </tr> <tr> <td>2</td> <td>0</td> </tr> </table>	T	O	2	0
T	O					
2	0					
Total number of almonds eaten	=	<table> <tr> <td>T</td> <td>O</td> </tr> <tr> <td>3</td> <td>3</td> </tr> </table>	T	O	3	3
T	O					
3	3					



Learning Check 2.5

1 Add the following.

a)

T	O
4	2
+	4 1
8	3

b)

T	O
1	4
+	7 3
8	7

c)

T	O
3	1
+	6 4
9	5

d)

T	O
3	6
+	5 3
8	9

e)

T	O
2	7
+	6 2
8	9

f)

T	O
3	5
+	5 2
8	7

g)

T	O
6	3
+	3 1
9	4

h)

T	O
7	2
+	2 4
9	6

- 2 Afia baked 42 cookies and her sister baked 56 cookies. How many cookies were baked altogether?**

$$\begin{array}{r}
 \text{Afia baked cookies} = \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 4 & 2 \\ \hline \end{array} \\
 \text{Her sister baked cookies} = + \begin{array}{|c|c|} \hline 5 & 6 \\ \hline \end{array} \\
 \hline
 \text{Total number of cookies baked} = \begin{array}{|c|c|} \hline 9 & 8 \\ \hline \end{array}
 \end{array}$$



- 3 There are 46 blue fish and 32 red fish in a pond. How many fish are there altogether?**

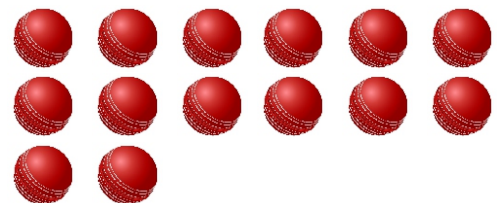
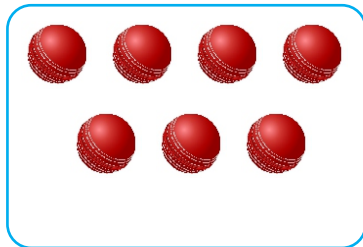
$$\begin{array}{r}
 \text{Blue fish} = \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 4 & 6 \\ \hline \end{array} \\
 \text{Red fish} = + \begin{array}{|c|c|} \hline 3 & 2 \\ \hline \end{array} \\
 \hline
 \text{Fish altogether} = \begin{array}{|c|c|} \hline 7 & 8 \\ \hline \end{array}
 \end{array}$$



Learning Check 2.6

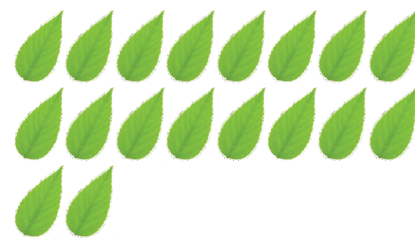
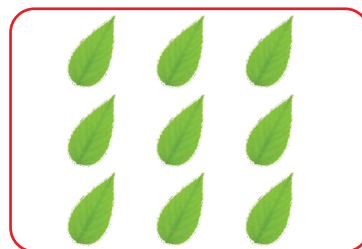
- 1 Count and complete the missing numbers. Also draw the objects.**

a)



$$\boxed{7} + \boxed{7} = \boxed{14}$$

b)



$$\boxed{9} + \boxed{9} = \boxed{18}$$

2 Write the missing numbers to complete the following.

a) $5 + 4 = \boxed{9}$

b) $3 + 6 = \boxed{9}$

c) $\boxed{3} + 15 = 18$

d) $2 + 11 = \boxed{13}$

e) $\boxed{6} + 6 = 12$

f) $9 + \boxed{8} = 17$

Learning Check 2.7

1 A farm has 11 apple trees and 7 mango trees. Calculate mentally to find the total number of trees.

Solution:

$$\begin{aligned} 11 + 7 &= 10 + 1 + 0 + 7 \\ &= 10 + 8 = 18 \end{aligned}$$

So, there are 18 total number of trees.

2 Add these numbers by using mental calculation.

a) $4 + 12$

Solution:

$$\begin{aligned} 4 + 12 &= 10 + 2 + 0 + 4 \\ &= 10 + 6 = 16 \end{aligned}$$

b) $13 + 6$

Solution:

$$\begin{aligned} 13 + 6 &= 10 + 3 + 0 + 6 \\ &= 13 + 9 = 19 \end{aligned}$$

c) $6 + 10$

Solution:

$$\begin{aligned} 6 + 10 &= 10 + 0 + 0 + 6 \\ &= 10 + 6 = 16 \end{aligned}$$

d) $5 + 11$

Solution:

$$\begin{aligned} 5 + 11 &= 10 + 1 + 0 + 5 \\ &= 10 + 6 = 16 \end{aligned}$$

e) $15 + 3$

Solution:

$$\begin{aligned} 15 + 3 &= 10 + 5 + 0 + 3 \\ &= 10 + 8 = 18 \end{aligned}$$

f) $6 + 13$

Solution:

$$\begin{aligned} 6 + 13 &= 10 + 3 + 0 + 6 \\ &= 10 + 9 = 19 \end{aligned}$$

Unit Check 2

1 Encircle the correct options.

a) 19 is 11 more than 8.

i) 10

ii) 11

iii) 27

iv) 9

b) We use the $\pm$ symbol for addition.

i) $-$

ii) $\div$

iii) $+$

iv) $=$

c) $12 + 11 = \underline{23}$.

i) 23

ii) 1

iii) 20

iv) 21

d) $9 + \underline{7} = 16$.

i) 2

ii) 5

iii) 11

iv) 7

e) Sara has 56 coins. Her father gave her 20 more. How many coins does she have now?

i) 36

ii) 46

iii) 76

iv) 66

2 Add the following.

a)

T	O
1	0
+	9
1	9

b)

T	O
2	8
+	1
3	9

c)

T	O
7	5
+	1
8	7

d)

T	O
3	1
+	4
7	9

e)

T	O
1	7
+	4
5	7

f)

T	O
9	8
+	0
9	9

g)

T	O
6	5
+	1
7	9

h)

T	O
2	6
+	5
7	8

- 

$$13 + 5 = 10 + 3 + 0 + 5$$
$$= 13 + 5 = 18$$

Find the missing numbers.

b) 8 + 5 = 13

d) $11 + \underline{8} = 19$

- | | | | | | | |
|-----------------------|-----|---|---|---|--|---|
| | | T | O | | | |
| Beads put on shirt | = | <table border="1"><tr><td>1</td><td>6</td></tr></table> | 1 | 6 | |  |
| 1 | 6 | | | | | |
| Beads put on scarf | = + | <table border="1"><tr><td>1</td><td>2</td></tr></table> | 1 | 2 | |  |
| 1 | 2 | | | | | |
| Beads used altogether | = | <table border="1"><tr><td>2</td><td>8</td></tr></table> | 2 | 8 | | |
| 2 | 8 | | | | | |

- Ali has 16 red and 21 blue balloons. How many balloons does he have altogether?

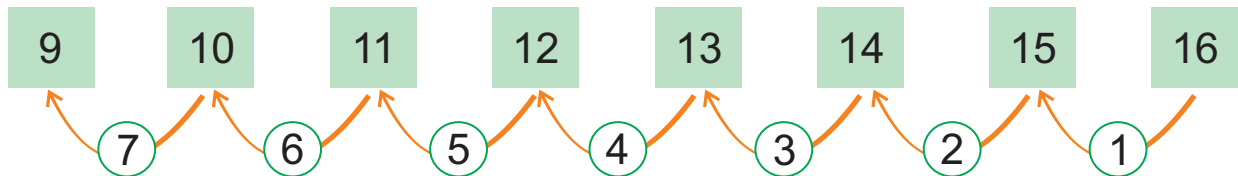
Ali has red balloons	=	<table><tr><td>1</td><td>6</td></tr></table>	1	6
1	6			
Ali has blue balloons	= +	<table><tr><td>2</td><td>1</td></tr></table>	2	1
2	1			
Balloons altogether	=	<table><tr><td>3</td><td>7</td></tr></table>	3	7
3	7			



Learning Check 3.1

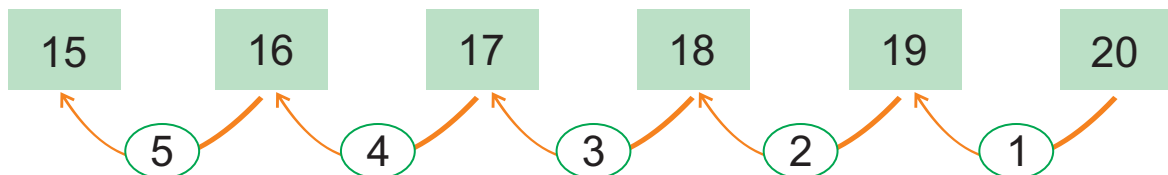
Compare the following numbers and write how much less one is than the other.

a) 9, 16



So, 9 is 7 less than 16.

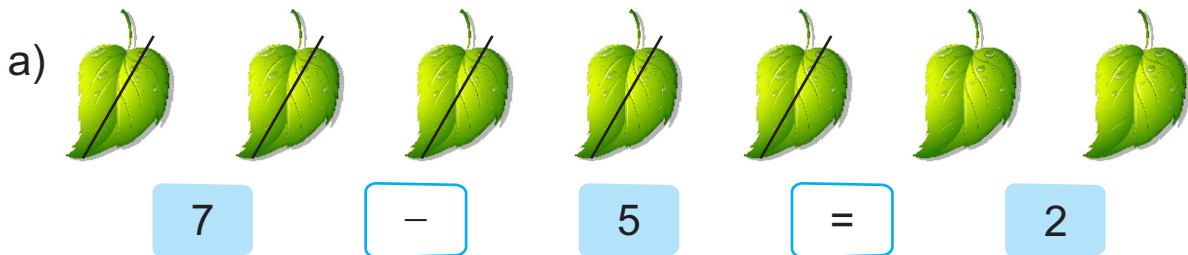
b) 15, 20



So, 15 is 5 less than 20.

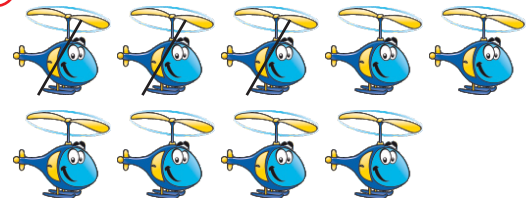
Learning Check 3.2

1 Count and write the answers. Use the symbols '-' and '=' correctly.



c)

9
3
6

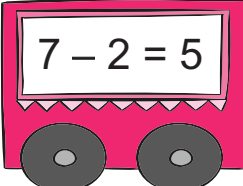
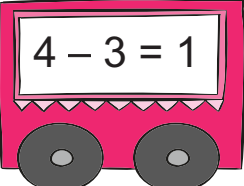
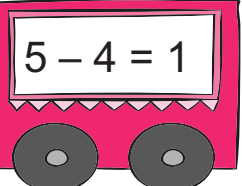
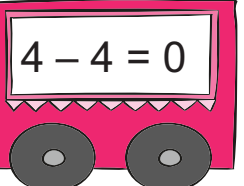


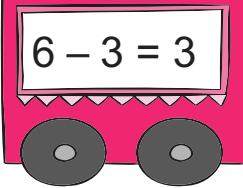
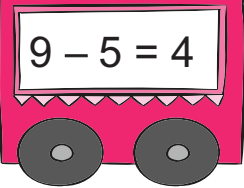
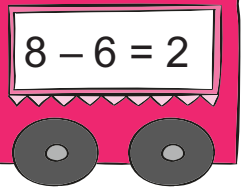
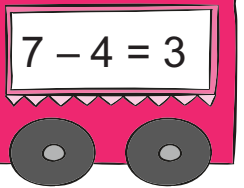
d)

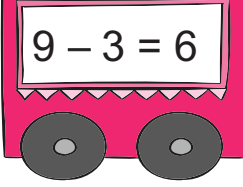
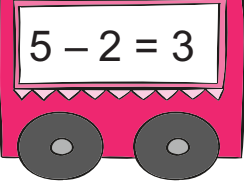
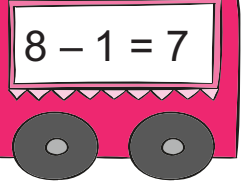
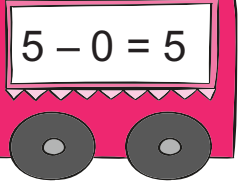
4
1
3



2 Subtract the following.

a)  $7 - 2 = 5$ b)  $4 - 3 = 1$ c)  $5 - 4 = 1$ d)  $4 - 4 = 0$

e)  $6 - 3 = 3$ f)  $9 - 5 = 4$ g)  $8 - 6 = 2$ h)  $7 - 4 = 3$

i)  $9 - 3 = 6$ j)  $5 - 2 = 3$ k)  $8 - 1 = 7$ l)  $5 - 0 = 5$

3 Look at the picture and write a subtraction sentence. Then solve it.

Total ducks	=	$\begin{array}{r} 0 \\ 5 \end{array}$
Ducks in the water	= -	$\begin{array}{r} 3 \\ 5 \\ \hline \end{array}$
Ducks not in the water	=	$\begin{array}{r} 2 \end{array}$



4 There are 9 eggs and 3 are rotten. How many eggs are fresh?

Total eggs	=	$\begin{array}{r} 0 \\ 9 \end{array}$
Rotten eggs	= -	$\begin{array}{r} 3 \\ 9 \\ \hline \end{array}$
Fresh eggs	=	$\begin{array}{r} 6 \end{array}$



Learning Check 3.3

1 Subtract the following.

a)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 1 \quad 2 \\ - 0 \quad 2 \\ \hline 1 \quad 0 \end{array}$$

b)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 8 \\ - 0 \quad 6 \\ \hline 5 \quad 2 \end{array}$$

c)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 3 \quad 4 \\ - 0 \quad 3 \\ \hline 3 \quad 1 \end{array}$$

d)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 1 \quad 9 \\ - 0 \quad 1 \\ \hline 1 \quad 8 \end{array}$$

e)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 7 \quad 9 \\ - 0 \quad 5 \\ \hline 7 \quad 4 \end{array}$$

f)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 3 \quad 7 \\ - 0 \quad 2 \\ \hline 3 \quad 5 \end{array}$$

g)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 9 \\ - 0 \quad 8 \\ \hline 5 \quad 1 \end{array}$$

h)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 7 \\ - 0 \quad 6 \\ \hline 9 \quad 1 \end{array}$$

2 Razia had 39 crayons. She gave 7 crayons to her sister. How many crayons does she has left?

Crayons Razia had	=	$\begin{array}{ c c } \hline \text{T} & \text{O} \\ \hline 3 & 9 \\ \hline \end{array}$
Crayons given to sister	= -	$\begin{array}{ c c } \hline & 7 \\ \hline \end{array}$
Crayons left	=	$\begin{array}{ c c } \hline 3 & 2 \\ \hline \end{array}$



Learning Check 3.4

1 Subtract the following.

a)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 1 \quad 8 \\ - 1 \quad 0 \\ \hline 0 \quad 8 \end{array}$$

b)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 2 \\ - 4 \quad 0 \\ \hline 2 \quad 2 \end{array}$$

c)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 3 \\ - 1 \quad 0 \\ \hline 5 \quad 3 \end{array}$$

d)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 3 \quad 6 \\ - 3 \quad 0 \\ \hline 0 \quad 6 \end{array}$$

e)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 8 \quad 8 \\ - 5 \quad 0 \\ \hline 3 \quad 8 \end{array}$$

f)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 9 \quad 2 \\ - 7 \quad 0 \\ \hline 2 \quad 2 \end{array}$$

g)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 7 \\ - 5 \quad 0 \\ \hline 1 \quad 7 \end{array}$$

h)
$$\begin{array}{r} \text{T} \quad \text{O} \\ 2 \quad 7 \\ - 1 \quad 0 \\ \hline 1 \quad 7 \end{array}$$

- 2 There are 52 pages in a storybook. Marwa read 30 pages. How many pages are left?

$$\begin{array}{r}
 \text{Total pages} = \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 5 & 2 \\ \hline \end{array} \\
 \text{Pages Marwa read} = - \begin{array}{|c|c|} \hline 3 & 0 \\ \hline \end{array} \\
 \hline
 \text{Pages left} = \begin{array}{|c|c|} \hline 2 & 2 \\ \hline \end{array}
 \end{array}$$



Learning Check 3.5

- 1 Subtract the following.

a)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 5 & 5 \\ - 3 & 2 \\ \hline 2 & 3 \\ \hline \end{array}$$

b)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 3 & 1 \\ - 2 & 1 \\ \hline 1 & 0 \\ \hline \end{array}$$

c)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 7 & 3 \\ - 2 & 2 \\ \hline 5 & 1 \\ \hline \end{array}$$

d)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 7 & 7 \\ - 3 & 3 \\ \hline 4 & 4 \\ \hline \end{array}$$

e)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 6 & 7 \\ - 4 & 6 \\ \hline 2 & 1 \\ \hline \end{array}$$

f)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 8 & 8 \\ - 3 & 6 \\ \hline 5 & 2 \\ \hline \end{array}$$

g)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 2 & 9 \\ - 2 & 2 \\ \hline 0 & 7 \\ \hline \end{array}$$

h)
$$\begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 4 & 9 \\ - 3 & 8 \\ \hline 1 & 1 \\ \hline \end{array}$$

- 2 There are 62 candies in a jar. Sana gave 7 candies to some needy kids. How many candies are left?

$$\begin{array}{r}
 \text{Total candies} = \begin{array}{|c|c|} \hline \text{T} & \text{O} \\ \hline 6 & 2 \\ \hline \end{array} \\
 \text{Candies given} = - \begin{array}{|c|c|} \hline & 7 \\ \hline \end{array} \\
 \hline
 \text{Candies left} = \begin{array}{|c|c|} \hline 5 & 5 \\ \hline \end{array}
 \end{array}$$

- 3 There are 36 students in Adil's class. 16 are boys. How many girls are there in the class?

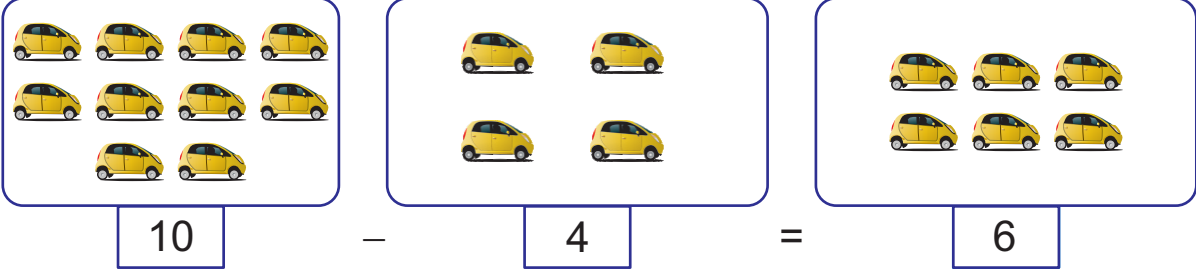
$$\begin{array}{r}
 \text{Total students} = \begin{array}{|c|c|} \hline 3 & 6 \\ \hline \end{array} \\
 \text{Boys} = - \begin{array}{|c|c|} \hline 1 & 6 \\ \hline \end{array} \\
 \hline
 \text{Girls} = \begin{array}{|c|c|} \hline 2 & 0 \\ \hline \end{array}
 \end{array}$$



Learning Check 3.6

1 Count and write the missing numbers. Also draw the objects.

a)


$$10 - 4 = 6$$

b)


$$17 - 12 = 5$$

2 Write the missing numbers to complete the following.

a) $20 - 9 = 11$

b) $19 - 7 = 12$

c) $15 - 4 = 11$

d) $17 - 8 = 9$

e) $17 - 12 = 5$

f) $13 - 12 = 1$

Learning Check 3.7

1 Ali got 12 marks and his sister Nida got 19 marks in a Maths exam. How many less marks did Ali get than his sister? Calculate mentally.

Solution:

Subtract the tens: $10 - 10 = 0$

Subtract the ones: $9 - 2 = 7$

Add the result.

$$0 + 7 = 7$$

So, $19 - 12 = 7$.

Ali got 7 marks less than Nida.

2 Subtract these numbers by using mental calculation.

a) $18 - 4$

Solution:

Subtract the tens: $10 - 0 = 10$

Subtract the ones: $8 - 4 = 4$

Add the result.

$$10 + 4 = 14$$

So, $18 - 4 = 14$.

c) $14 - 2$

Solution:

Subtract the tens: $10 - 0 = 10$

Subtract the ones: $4 - 2 = 2$

Add the result.

$$10 + 2 = 12$$

So, $14 - 2 = 12$.

e) $16 - 5$

Solution:

Subtract the tens: $10 - 0 = 10$

Subtract the ones: $6 - 5 = 1$

Add the result.

$$10 + 1 = 11$$

So, $16 - 5 = 11$.

b) $16 - 11$

Solution:

Subtract the tens: $10 - 10 = 0$

Subtract the ones: $6 - 1 = 5$

Add the result.

$$0 + 5 = 5$$

So, $16 - 11 = 5$.

d) $17 - 11$

Solution:

Subtract the tens: $10 - 10 = 0$

Subtract the ones: $7 - 1 = 6$

Add the result.

$$0 + 6 = 6$$

So, $17 - 11 = 6$.

f) $19 - 5$

Solution:

Subtract the tens: $10 - 0 = 10$

Subtract the ones: $9 - 5 = 4$

Add the result.

$$10 + 4 = 14$$

So, $19 - 5 = 14$.

Unit Check 3

1 Encircle the correct options.

a) 8 is _____ less than 15.

i) 7

ii) 8

iii) 10

iv) 9

b) We use the _____ symbol for subtraction.

i) $\div$

ii) $-$

iii) $+$

iv) $=$

c) 17 take away 12 equals _____.

- i) 29 **ii) 5** iii) 6 iv) 17

d) $14 - \underline{\hspace{2cm}} = 2$.

- i) 11 ii) 15 iii) 16 **iv) 12**

e) There are 55 chocolates in a packet. Hira gave 23 chocolates to her brother. The number of chocolates left is _____.

- i) 23 **ii) 32** iii) 33 iv) 22

2 Subtract the following.

a)	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>4</td><td>7</td></tr><tr><td>- 0</td><td>3</td></tr><tr><td colspan="2"> </td></tr><tr><td>4</td><td>4</td></tr></table>	T	O	4	7	- 0	3			4	4	b)	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>2</td><td>2</td></tr><tr><td>- 1</td><td>0</td></tr><tr><td colspan="2"> </td></tr><tr><td>1</td><td>2</td></tr></table>	T	O	2	2	- 1	0			1	2	c)	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>3</td><td>7</td></tr><tr><td>- 2</td><td>3</td></tr><tr><td colspan="2"> </td></tr><tr><td>1</td><td>4</td></tr></table>	T	O	3	7	- 2	3			1	4	d)	<table border="1"><tr><td>T</td><td>O</td></tr><tr><td>6</td><td>9</td></tr><tr><td>- 5</td><td>1</td></tr><tr><td colspan="2"> </td></tr><tr><td>1</td><td>8</td></tr></table>	T	O	6	9	- 5	1			1	8
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- 7	4																																														
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3 Subtract 7 from 19 mentally and write.

Subtract the tens: $10 - 0 = 10$

Subtract the ones: $9 - 7 = 2$

Add the result.

$$10 + 2 = 12$$

So, $19 - 7 = 12$.

4 Find the missing numbers.

a) $9 - \underline{4} = 5$

b) $\underline{18} - 11 = 7$

c) $11 - 2 = \underline{9}$

d) $15 - \underline{6} = 9$

5 There are 99 tissues in a tissue box. Ahmad used 67 tissues. How many tissues are left in the tissue box?

			T	O
Tissues in the box	=		9	9
Tissues used	= -		6	7
Tissues left in the box	=		3	2



6 Make a subtraction sentence from the given number story and then solve it.

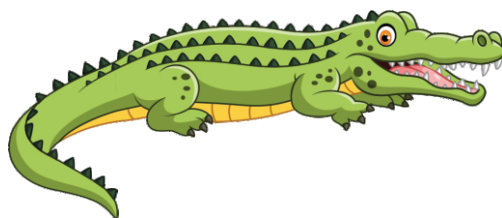
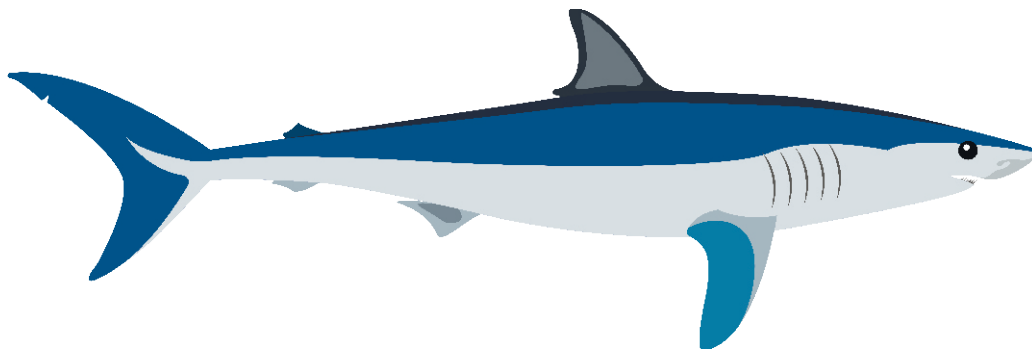
A storybook has 85 pages. Hina read 14 pages. How many pages are left to read?

			T	O
Total pages	=		8	5
Hina read	= -		1	4
Pages are left	=		7	1

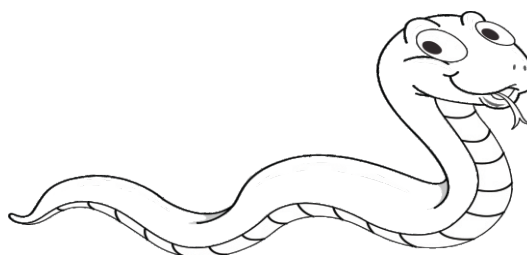
So, 71 pages are left to read.

Learning Check 4.1

1 Tick (✓) the longest object.

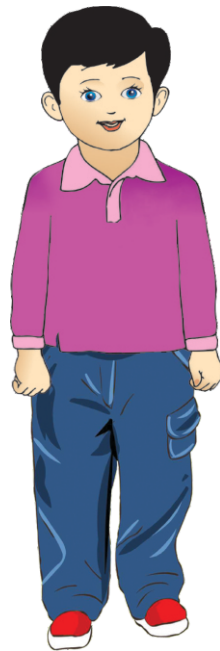


2 Colour the shortest object.

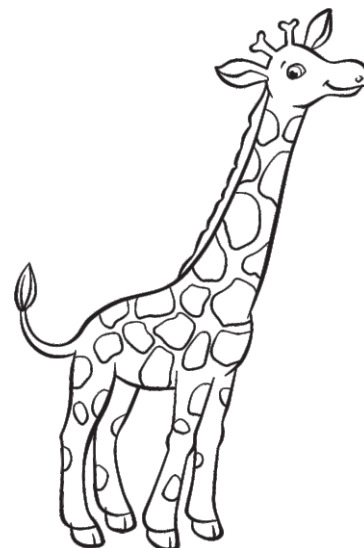
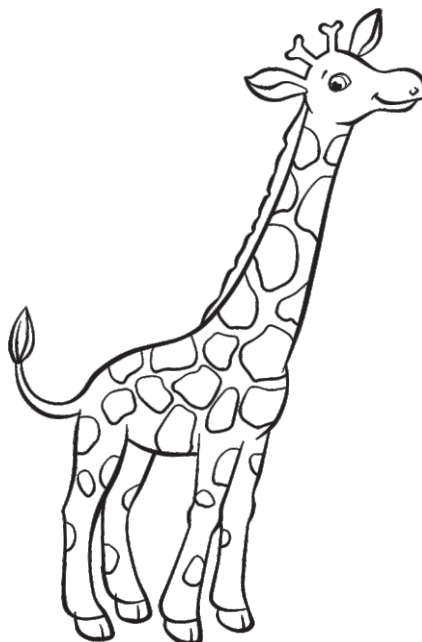


Learning Check 4.2

1 Tick (✓) the tallest boy.

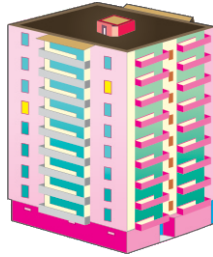


2 Colour the tallest giraffe.



Learning Check 4.3

- 1 Write 1 for a high object, 2 for a higher object and 3 for the highest object in the given boxes.



2

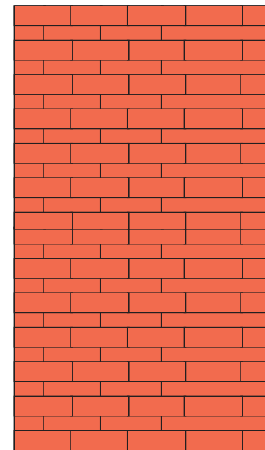
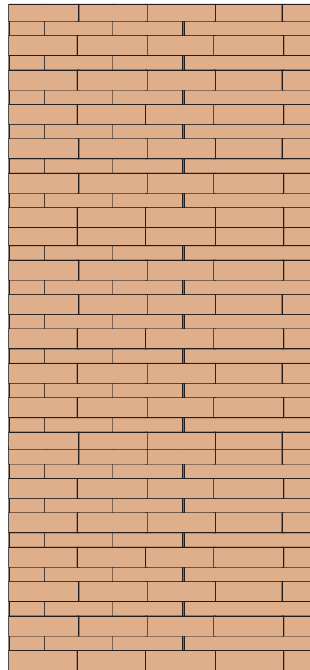
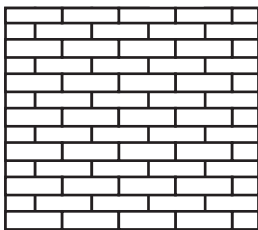


1



3

- 2 Colour the highest wall brown and a higher wall red.



Learning Check 4.4

- 2 Circle the lightest object.

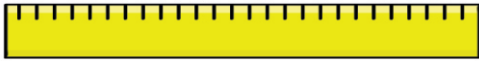


Unit Check 4

1 Encircle the correct options.

a) Which object is longer than  ?

i)



ii)



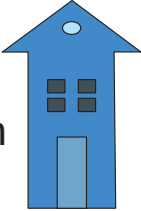
b) Which object is taller than  ?

i)

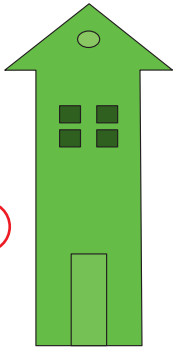


ii)



c) Which home is higher than  ?

i)

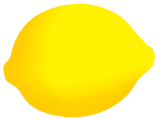


ii)



d) Which object is heavier than  ?

i)



ii)



e) Which object is lighter than  ?

i)



ii)



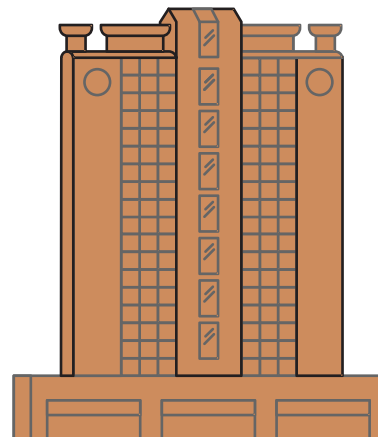
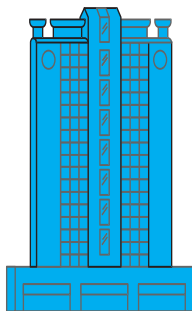
3 Tick (✓) the longest object.



4 Tick (✓) the tallest object.



5 Colour the high building yellow, the higher building blue and the highest building brown.



7 Tick (✓) the lightest object.



Learning Check 5.1

Identify and write the value of each of these coins and notes. Also write 'F' for the front and 'B' for the back of coins and notes.



F



B

Rupee

1



F



B

Rupees

10



F



B

Rupees

5



F



B

Rupees

2



F



B

Rupees

20



F



B

Rupees

10



F



B

Rupees

50



B



F

Rupees

100

Learning Check 5.2

1 Complete the following.

a)



One 20-rupee note = 4 5-rupee coins.

b)



One 10-rupee note = 1 5-rupee coin, 2 2-rupee coins
and 1 1 rupee coin.

c)



One 100-rupee note = 1 50-rupee note, 2 20-rupee notes
and 2 5 rupee coins.

2 Match the equal amounts.

The exercise consists of 10 boxes, each containing a different combination of Pakistani currency notes and coins. The boxes are arranged in two columns, and lines connect boxes with equal values.

- Box 1 (Top Left):** One 10 Rupee note (HW1957099) and seven 2 Rupee coins.
- Box 2 (Top Right):** Two 20 Rupee notes (CN7538902) and two 10 Rupee notes (HW1957099), plus two 2 Rupee coins.
- Box 3 (Second Row Left):** One 100 Rupee note (A0681403).
- Box 4 (Second Row Right):** One 20 Rupee note (CN7538902) and one 5 Rupee coin.
- Box 5 (Third Row Left):** One 50 Rupee note (AE3943477) and three 5 Rupee coins, plus three 2 Rupee coins.
- Box 6 (Third Row Right):** One 50 Rupee note (AE3943477).
- Box 7 (Fourth Row Left):** One 20 Rupee note (CN7538902) and eight 2 Rupee coins, plus three 5 Rupee coins.
- Box 8 (Fourth Row Right):** Two 50 Rupee notes (AE3943477).
- Box 9 (Bottom Left):** Two 20 Rupee notes (CN7538902), one 10 Rupee note (HW1957099), and three 5 Rupee coins.
- Box 10 (Bottom Right):** One 50 Rupee note (AE3943477) and three 5 Rupee coins, plus one 2 Rupee coin.

The connections between the boxes are as follows:

- Box 1 is connected to Box 2.
- Box 3 is connected to Box 4.
- Box 5 is connected to Box 6.
- Box 7 is connected to Box 8.
- Box 9 is connected to Box 10.

3 Tick (✓) the box if you can buy the objects with the given money.

a)



b)



Rs 5



c)



Rs 62



d)



Rs 78



4 Add the amounts and write the total value for each.

a)



50

b)



95

c)



75

d)



85

e)



53

Learning Check 5.3



Rs 20



Rs 7



Rs 75



Rs 95

- 1 Zaheer bought a ball and a candy. How much did he spend?

Price of ball = Rs 20

Price of candy = + Rs 7

Amount spent = Rs 27

- 2 Ibrahim wants to buy a teddy bear. He has Rs 82. How much more money does he need?

Price of teddy bear = Rs 95

Amount Ibrahim has = - Rs 82

More money he needs = Rs 13

- 3 Maira bought a book and a ball. How much did she spend?

Price of book = Rs 75

Price of ball = + Rs 20

Amount spent = Rs 95

- 4 Ali has Rs 85. He bought a book. What amount does he have left?

Total amount Ali has = Rs 85

Price of book = - Rs 75

Amount left = Rs 10

- 5 Akram wants to buy a candy. He has Rs 18. What amount does he have left?

Total amount Akram has =	Rs	18
Price of candy = –	Rs	7
Amount left =	Rs	11

Unit Check 5

- 1 Encircle the correct options.

a) We buy things using:

- i) paper ii) gold **iii) money** iv) marbles

b) Coins are made up of:

- i) paper ii) wood **iii) metal** iv) plastic

c) Notes are made of:

- i) paper** ii) wood iii) metal iv) plastic

d) _____ 2-rupee coins are equal to one 20-rupee note.

- i) 2 ii) 5 iii) 15 **iv) 10**

e) Rs _____ is equal to 2 notes of Rs 50.

- i) 10 ii) 25 iii) 50 **iv) 100**

- 2 Complete the following by looking at the notes.



One 20-rupee note = 2 10-rupee notes.

- 3 Tick (✓) the box if you can buy the objects with the given money.

a)

Rs 90







☒

b)

Rs 85








☐

- 4 Add the amounts and write the total value for each.

a)






Rs 69

b)









Rs 95

- 5 Arham wants to buy a pack of juice that costs Rs 40. He gave a 50-rupee note to the shopkeeper. How much change will he get back?

Amount Arham gave = Rs 50

Price of juice = – Rs 40

Change he will get = Rs 10

Learning Check 6.1

1 Draw the hands to show the correct time.



3 o'clock



7 o'clock



10 o'clock



12 o'clock



4 o'clock



8 o'clock

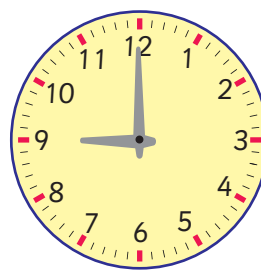
2 Look at the clocks and write the time in the given box.



2 o'clock

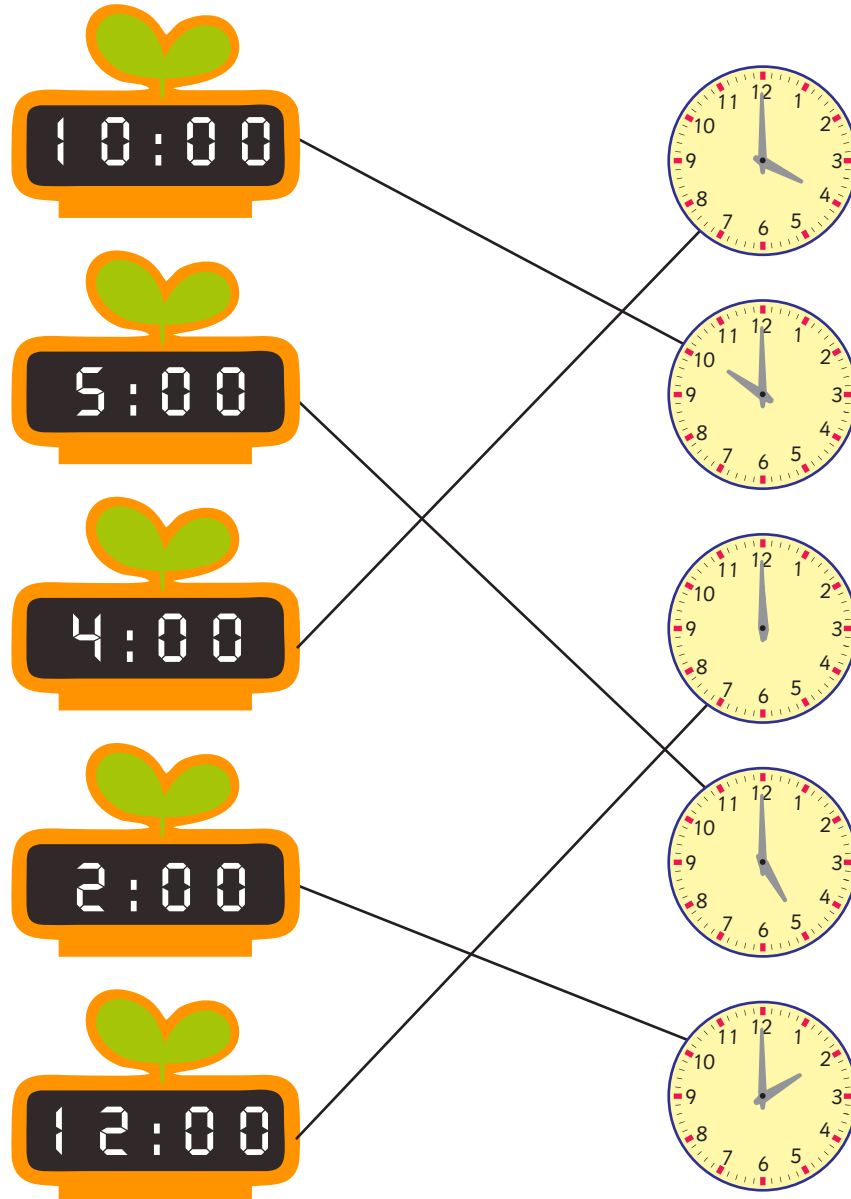


5 o'clock

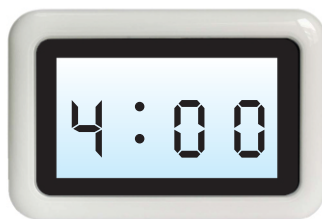


9 o'clock

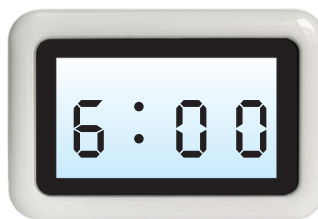
4 Match the time on the digital clocks with the analog clocks.



5 Write the digits in the clocks to show the time.



4 o'clock



6 o'clock



5 o'clock



11 o'clock



12 o'clock



3 o'clock



7 o'clock



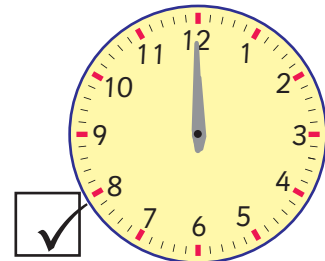
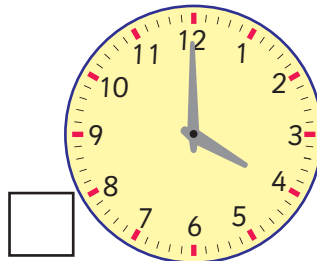
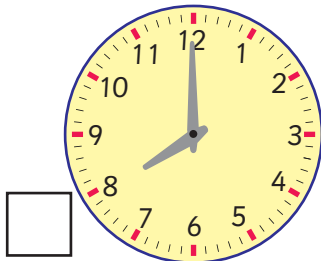
9 o'clock



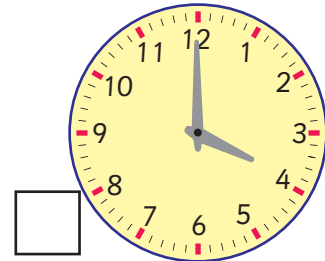
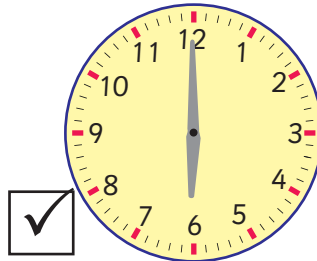
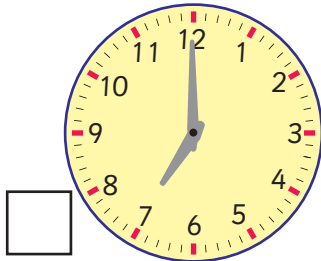
10 o'clock

6 Tick (✓) the clock that shows the correct time.

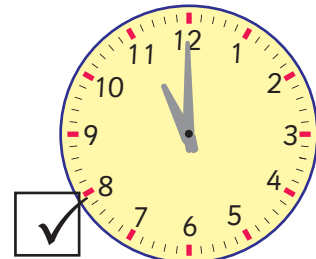
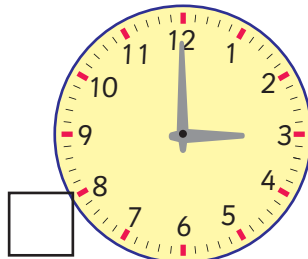
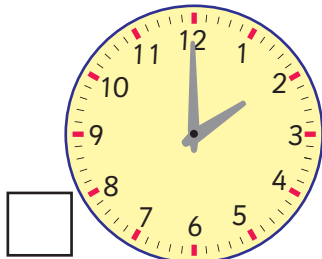
a) Which clock shows 12 o'clock?



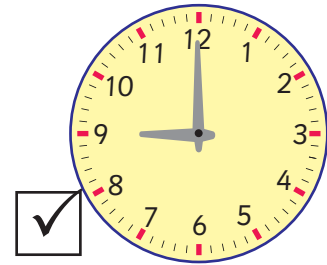
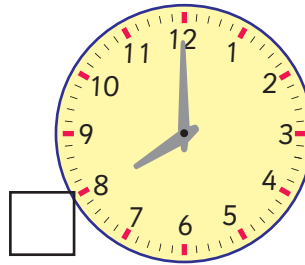
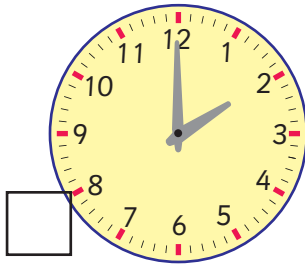
b) Which clock shows 6 o'clock?



c) Which clock shows 11 o'clock?

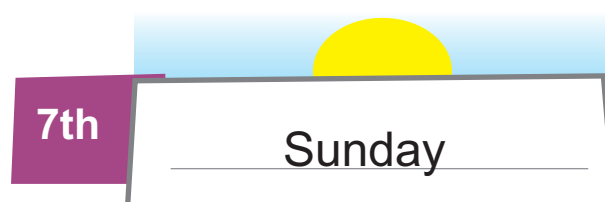
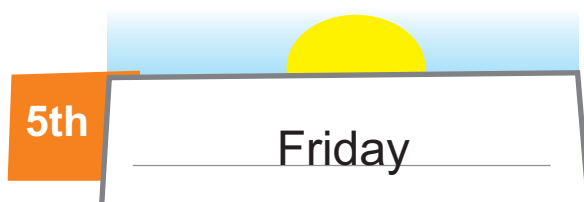
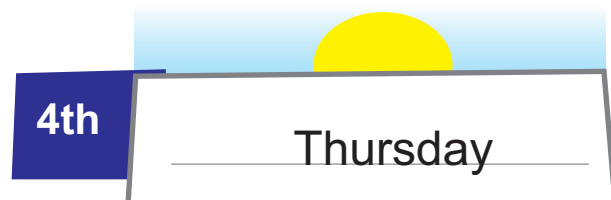
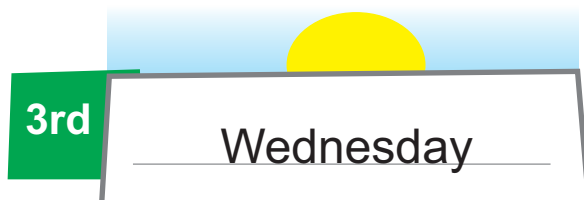
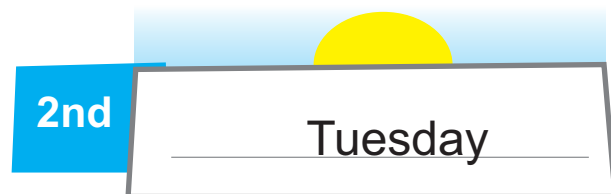
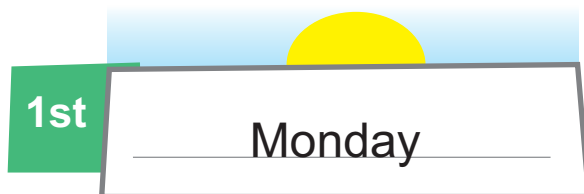


d) Which clock shows 9 o'clock?



Learning Check 6.2

1 Write the days of the week in the correct order.



2 Write which day comes before (yesterday) and after (tomorrow) the given days.

Yesterday
Thursday

Today
Friday

Tomorrow
Saturday

Yesterday
Saturday

Today
Sunday

Tomorrow
Monday

Yesterday
Monday

Today
Tuesday

Tomorrow
Wednesday

Yesterday
Friday

Today
Saturday

Tomorrow
Sunday

Yesterday
Sunday

Today
Monday

Tomorrow
Tuesday

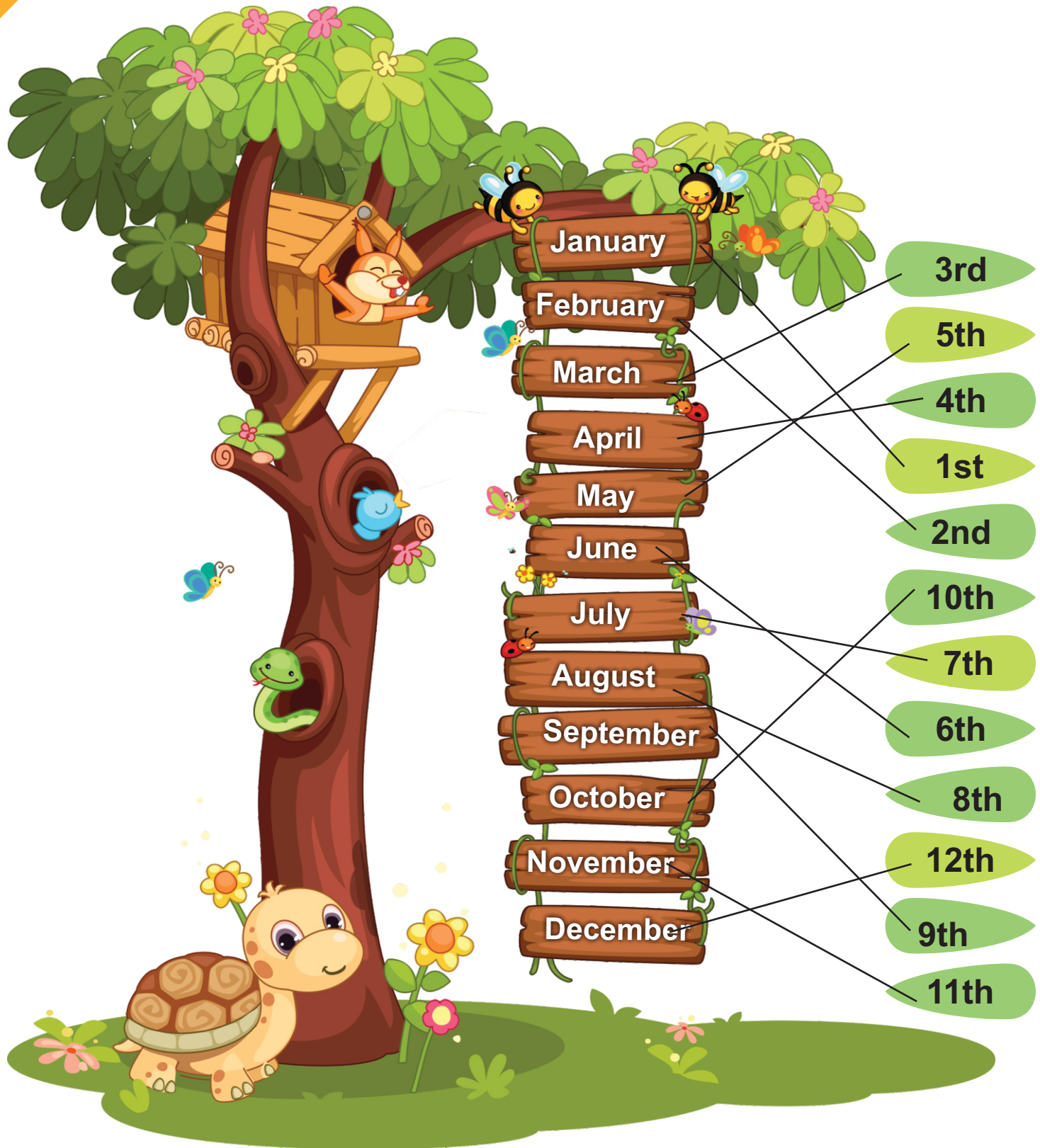
Yesterday
Wednesday

Today
Thursday

Tomorrow
Friday

Learning Check 6.3

Match the months of the year with their correct positions.



Learning Check 6.4

Write the correct position of each month.

Jamadi ul-Sani 6th

Rajab 7th

Muharram 1st

Ziqa'd 11th

Sha'ban 8th

Rabi ul-Awwal 3rd

Rabi ul-Sani 4th

Zil Hajj 12th

Ramadan 9th

Safar 2nd

Shawwal 10th

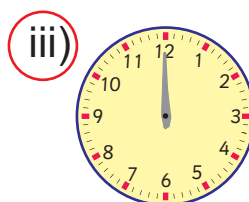
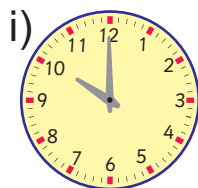
Jamadi ul-Awwal 5th



Unit Check 6

1 Encircle the correct options.

a) Which clock is showing 12 o'clock?



d) The clock  is showing:

i) 12 o'clock

ii) 6:00 o'clock

iii) 5:00 o'clock

iv) 8:00 o'clock

c) The second day of the week.

i) Saturday ii) Tuesday iii) Monday iv) Sunday

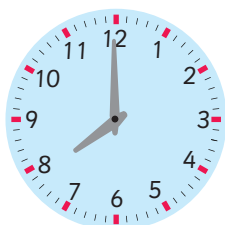
d) The day which comes after Friday.

i) Saturday ii) Thursday iii) Wednesday iv) Monday

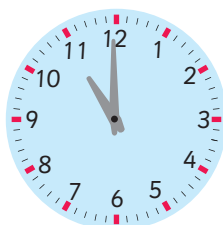
e) The last month of the Solar calendar.

i) Zil Hajj ii) December iii) Muharram iv) January

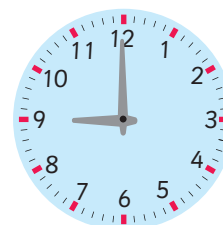
2 Draw hands on the clocks to show the time.



5:00

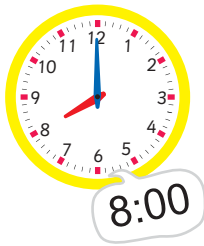


11:00

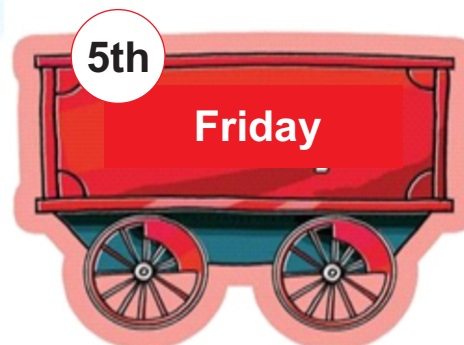
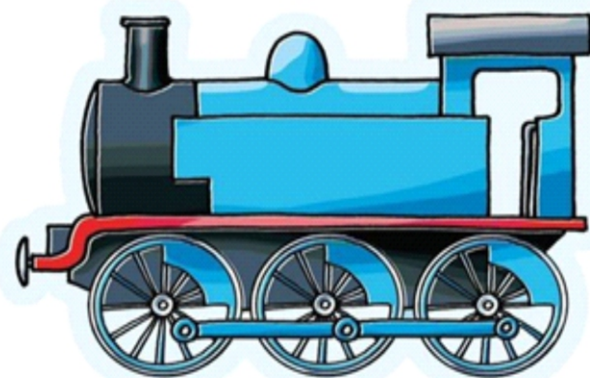
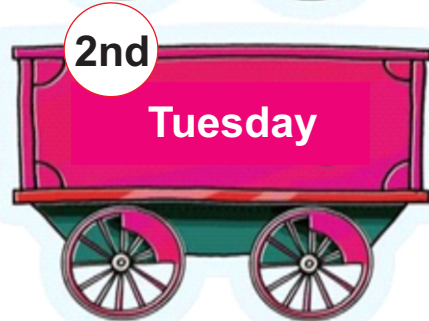
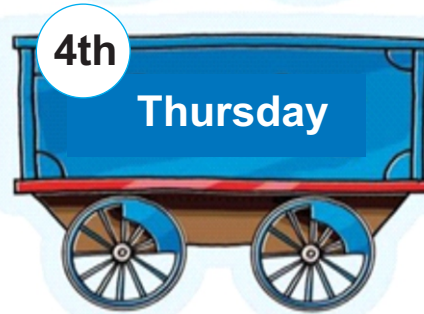
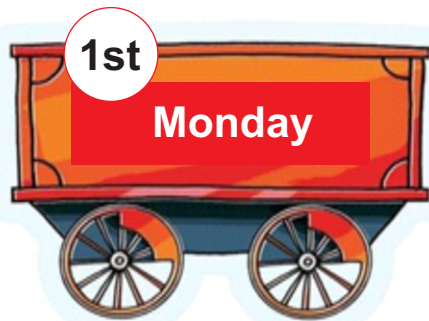


9:00

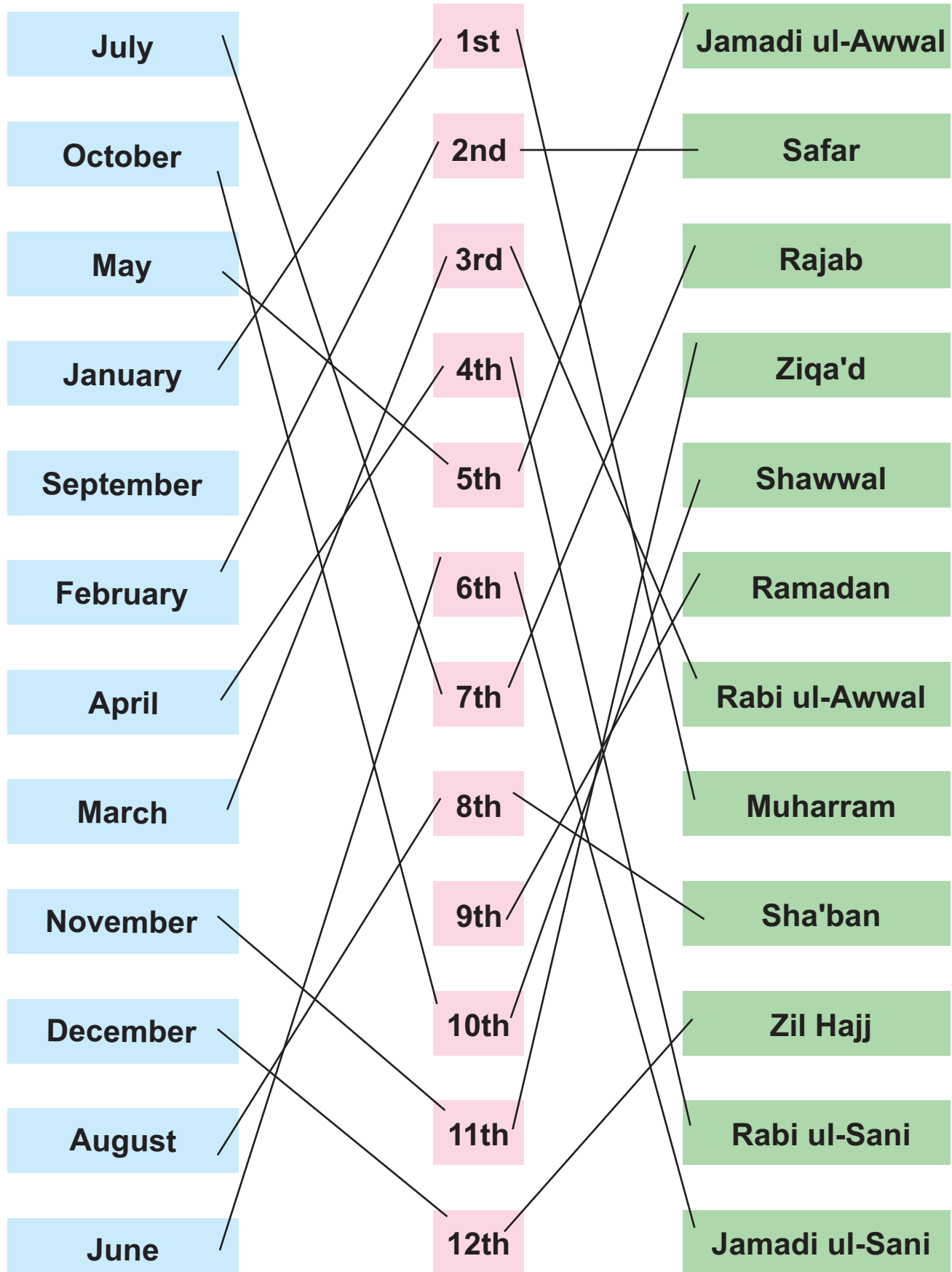
3 Write the time shown on the following clocks.



4 Write the correct positions of the days of the week.

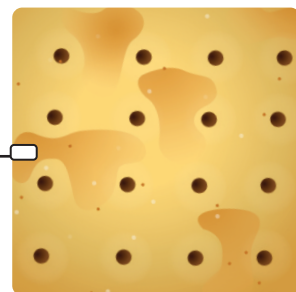
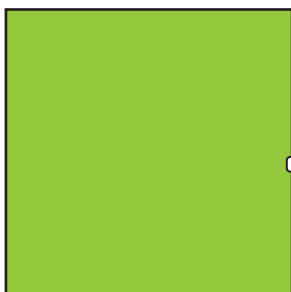
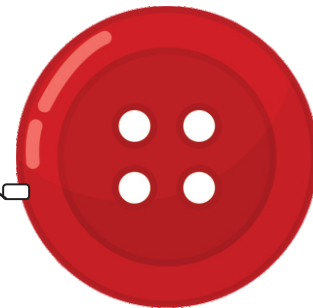
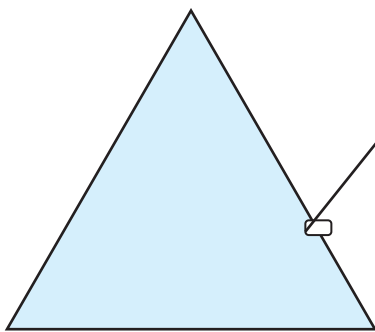
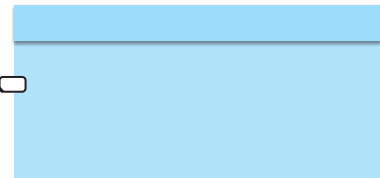
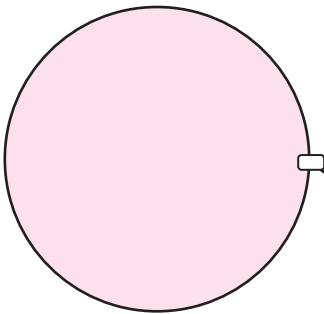
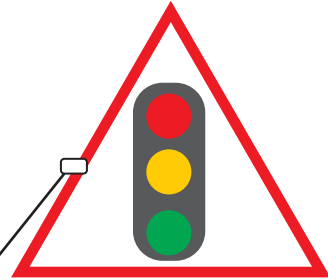


5 Match the months with their correct ordinal numbers.



Learning Check 7.1

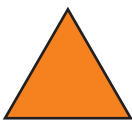
- 1 Colour the shapes and match with the similar shaped objects.



2 Colour the shapes according to the given colour key.



Circles



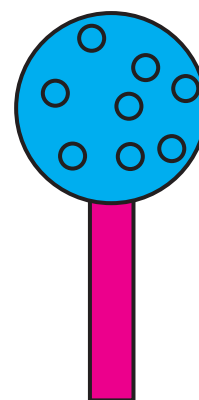
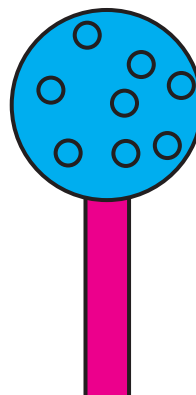
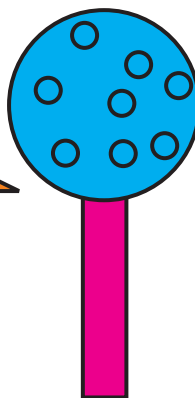
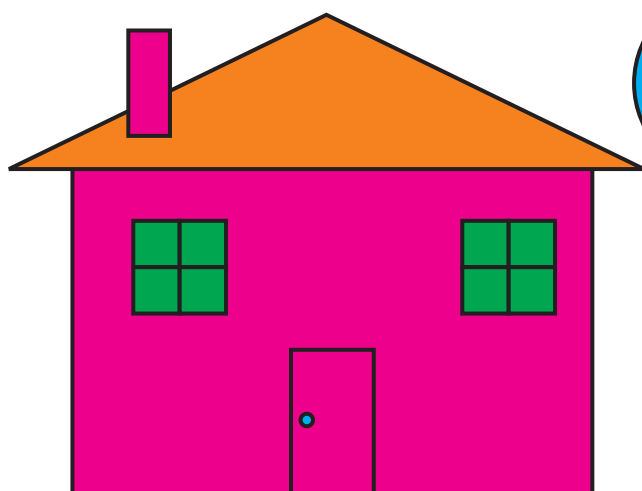
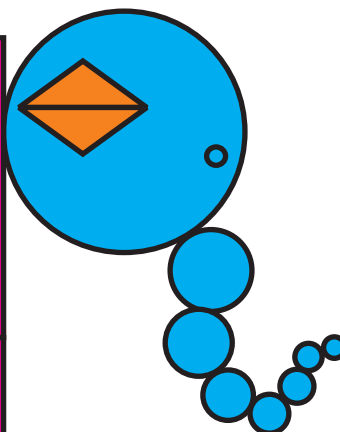
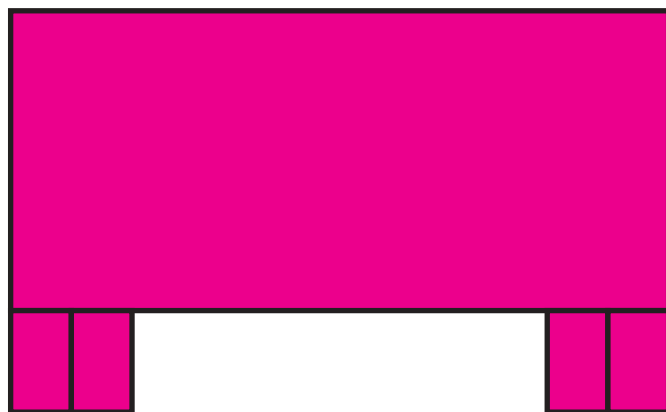
Triangles



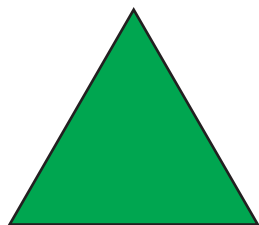
Squares



Rectangles



3 Write the correct number of sides and corners for each shape.



3 Sides

3 Corners



4 Sides

4 Corners

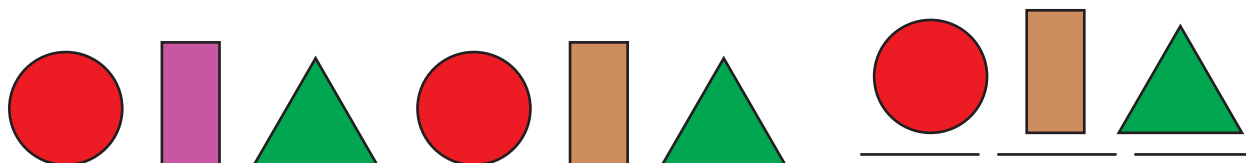
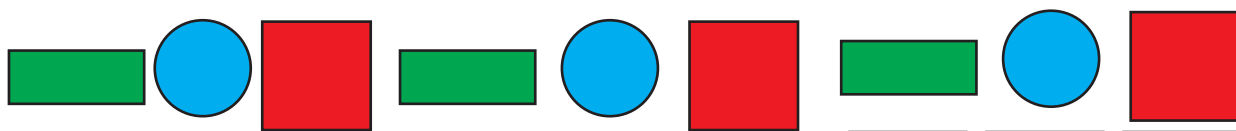


4 Sides

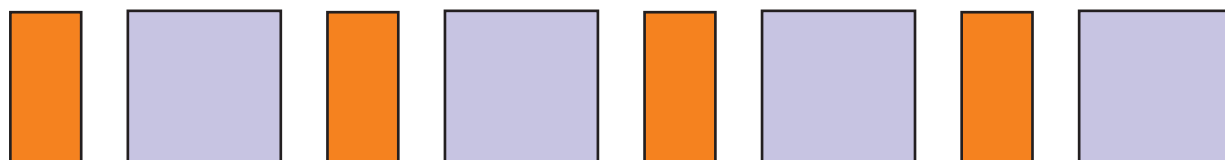
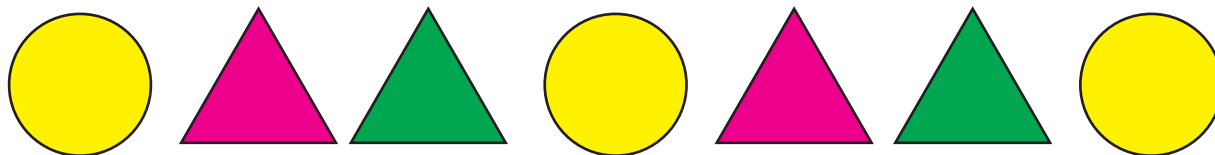
4 Corners

Learning Check 7.2

1 Draw and colour the next three shapes in these patterns.



2 Colour these shapes to make patterns.



Unit Check 7.2

1 Encircle the correct options.

a) The  has _____ corners.

i) 4

ii) 2

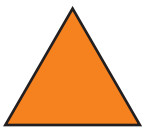
☒ iii) 3

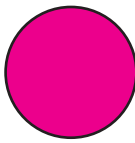
iv) 1

b) _____ shape has 4 equal sides.

i) 

☒ ii) 

iii) 

iv) 

c) _____ is rectangle-shaped.

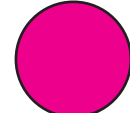
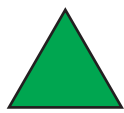
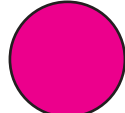
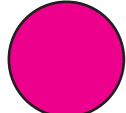
i) 

ii) 

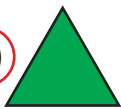
iii) 

☒ iv) 

d) The next shape in the given pattern is:



☒ i)



ii)



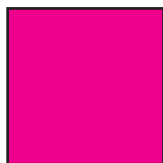
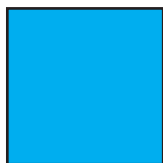
iii)



iv)



e) The next shape that completes the given pattern is:



☒ i)



ii)



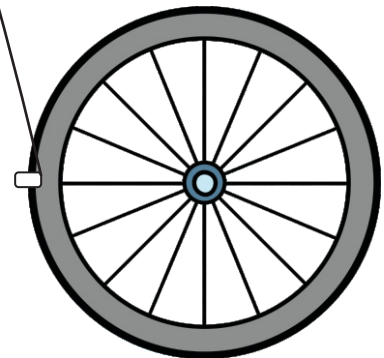
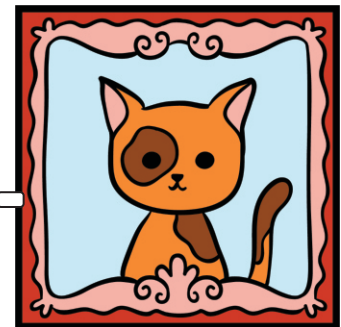
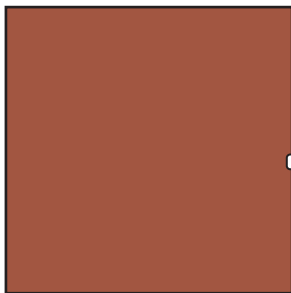
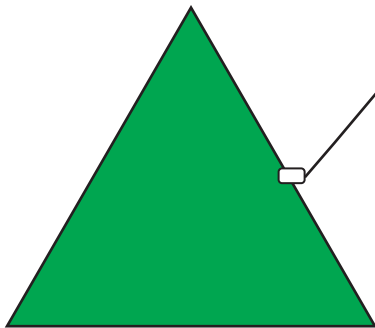
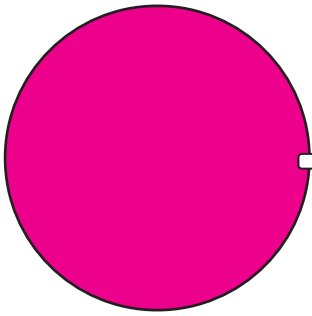
iii)



iv)



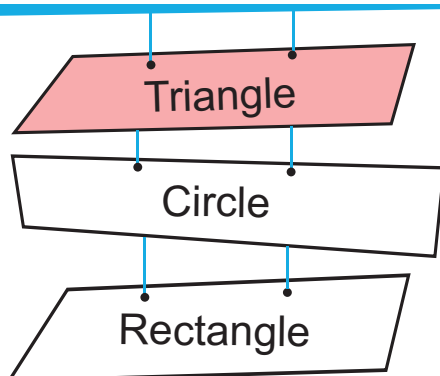
2 Match the shapes with the similar shaped objects.



3 Colour the correct answers.

What shape am I?

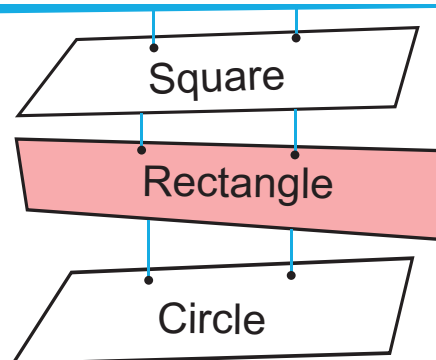
I have 3 sides and 3 corners.



What shape am I?

I have 2 long sides and 2 short sides.

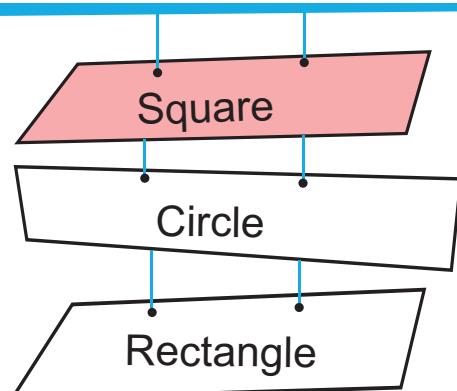
I have 4 corners.



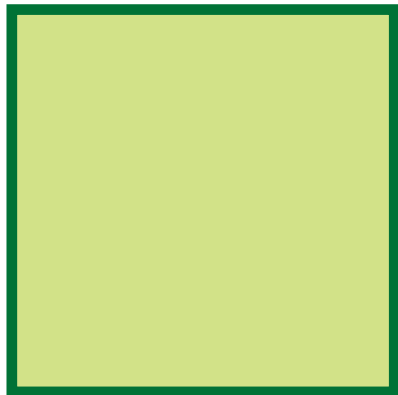
What shape am I?

I have 4 sides which are equal in length.

I have 4 corners.



- 4 Write the names of the shapes and then write how many sides and corners each shape has.



Name: Square

Number of sides: 4

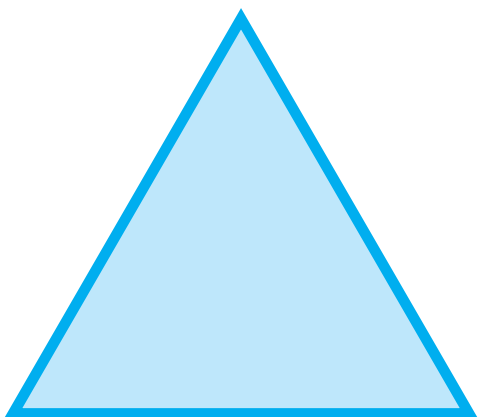
Number of corners: 4



Name: Rectangle

Number of sides: 4

Number of corners: 4

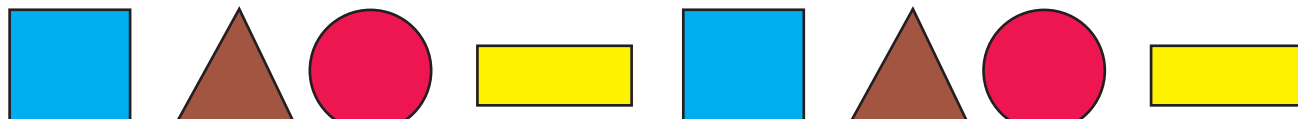
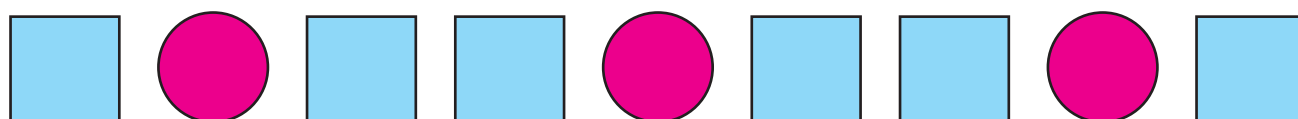
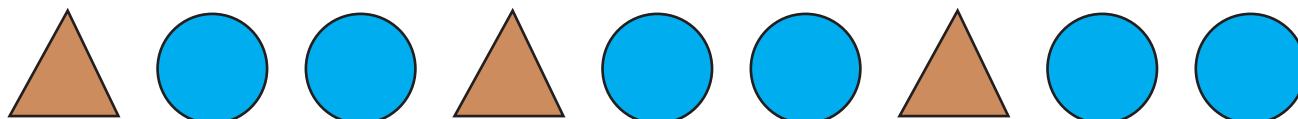
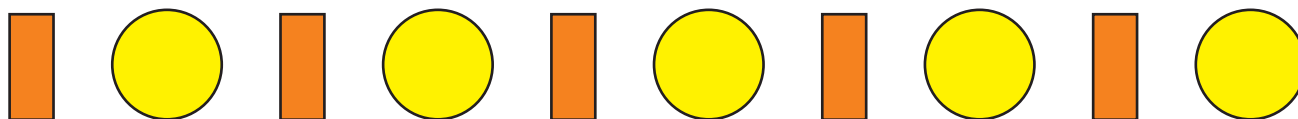


Name: Triangle

Number of sides: 3

Number of corners: 3

5 Colour the shapes to complete the patterns.



Learning Check 8.1

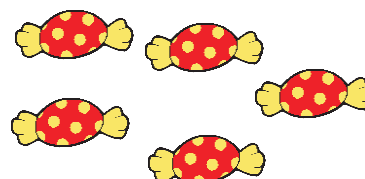
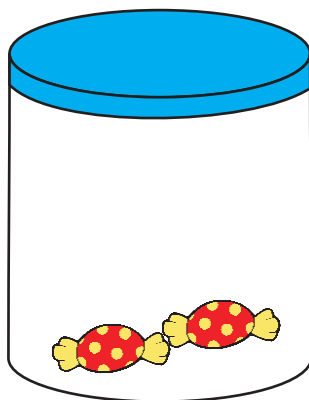
- 1 Circle the bee outside the hive.



- 2 Tick (✓) the bird inside the cage.



- 3 Draw 2 candies inside the jar and 5 candies outside the jar.

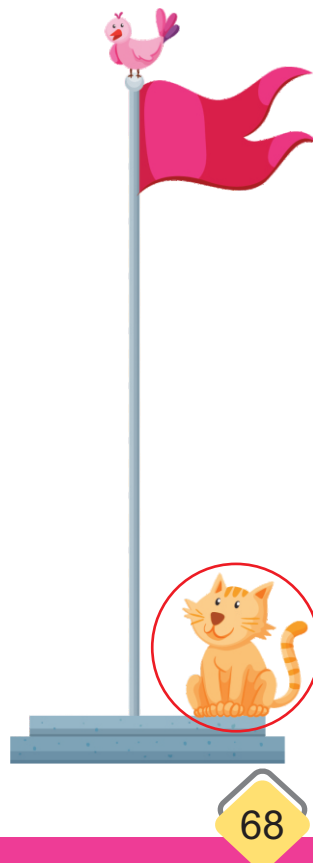


Learning Check 8.2

- 1 Circle the butterfly above the bridge.



- 2 Circle the object below another object.



Learning Check 8.3

1 Circle the bird under the tree.



2 Circle the bear over the log.

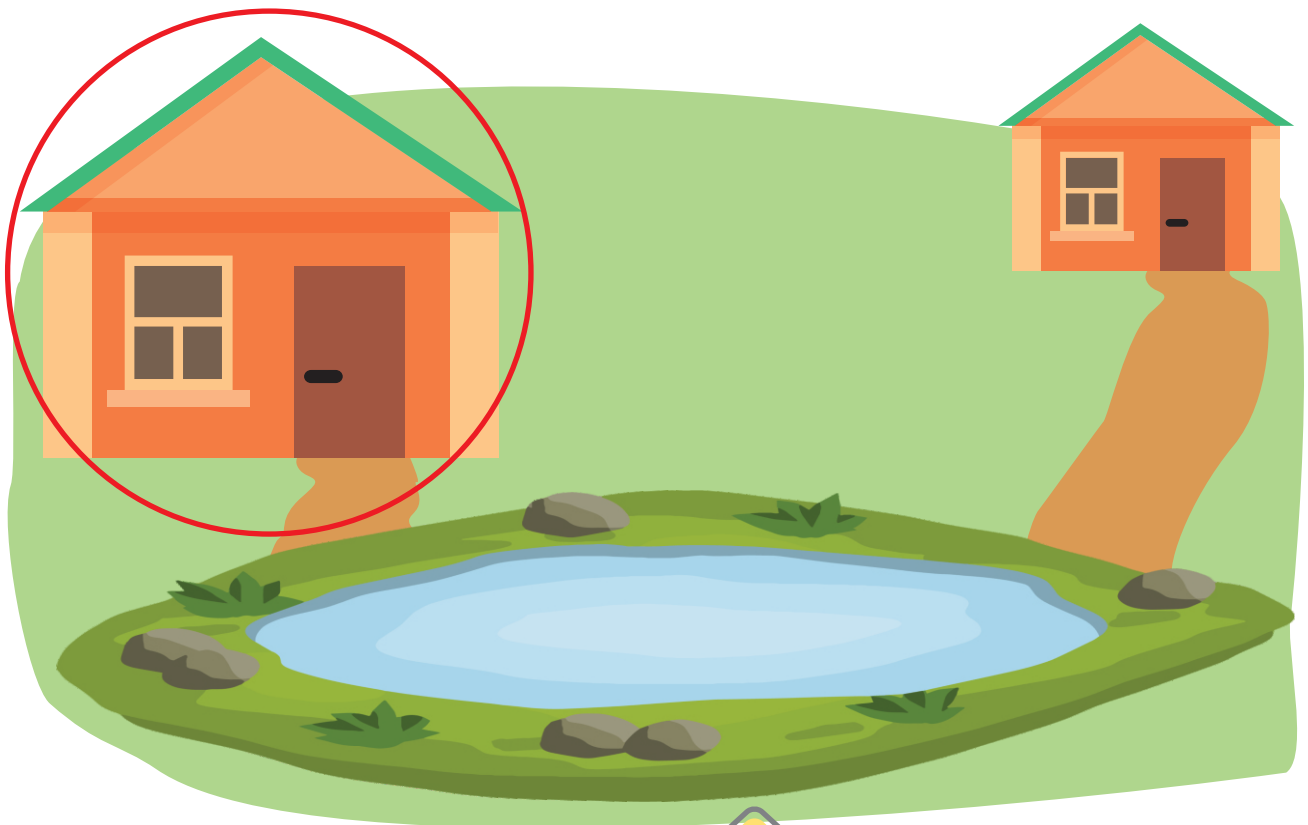


Learning Check 8.4

- 1 Circle the cat near the tree and cross (x) the cat far from it.

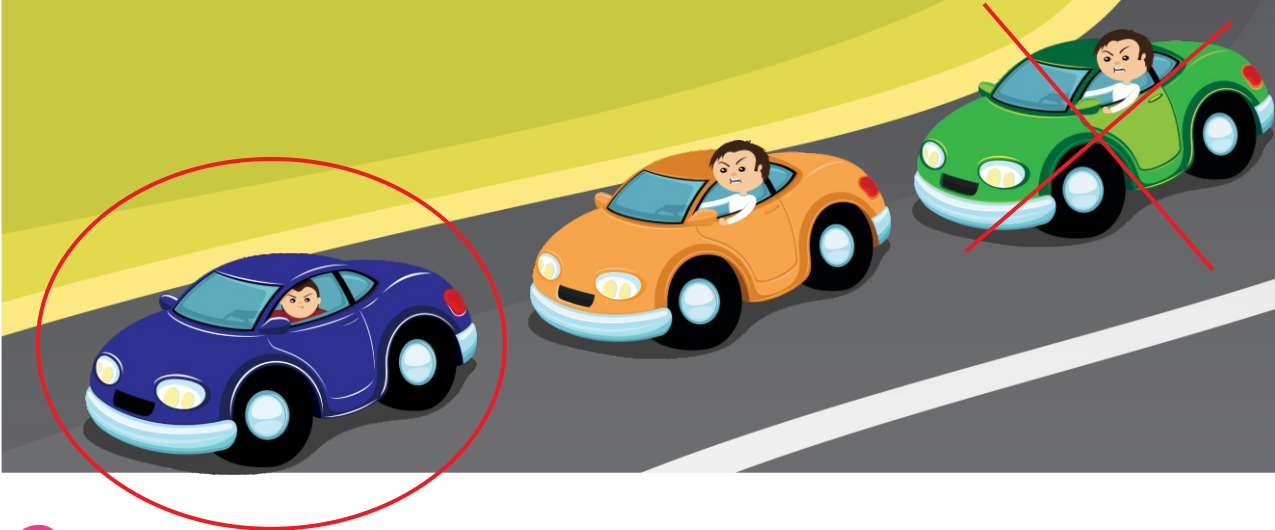


- 2 Which house is near the pond? Circle it.

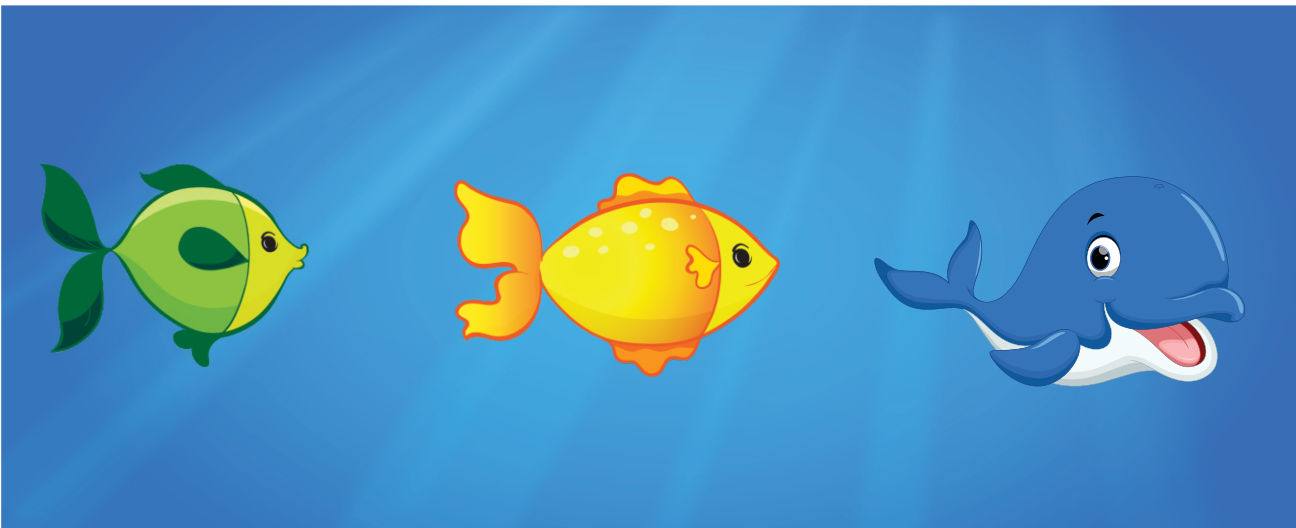


Learning Check 8.5

- 1 Circle the car that is before the orange car and cross (×) the car that is after the orange car.



- 2 Look at the fish and write T for a true statement and F for a false statement.



The green fish is before the yellow fish.

F

The yellow fish is after the green fish.

F

The blue fish is before the yellow fish.

T

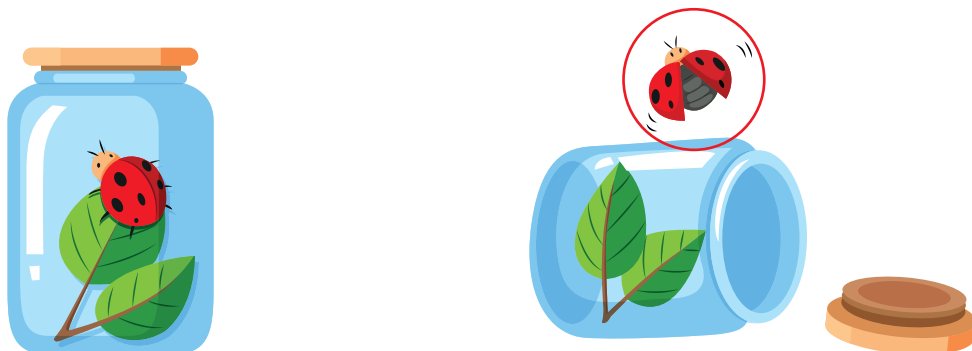
Unit Check 8.4

1 Look at the picture and encircle the correct options.

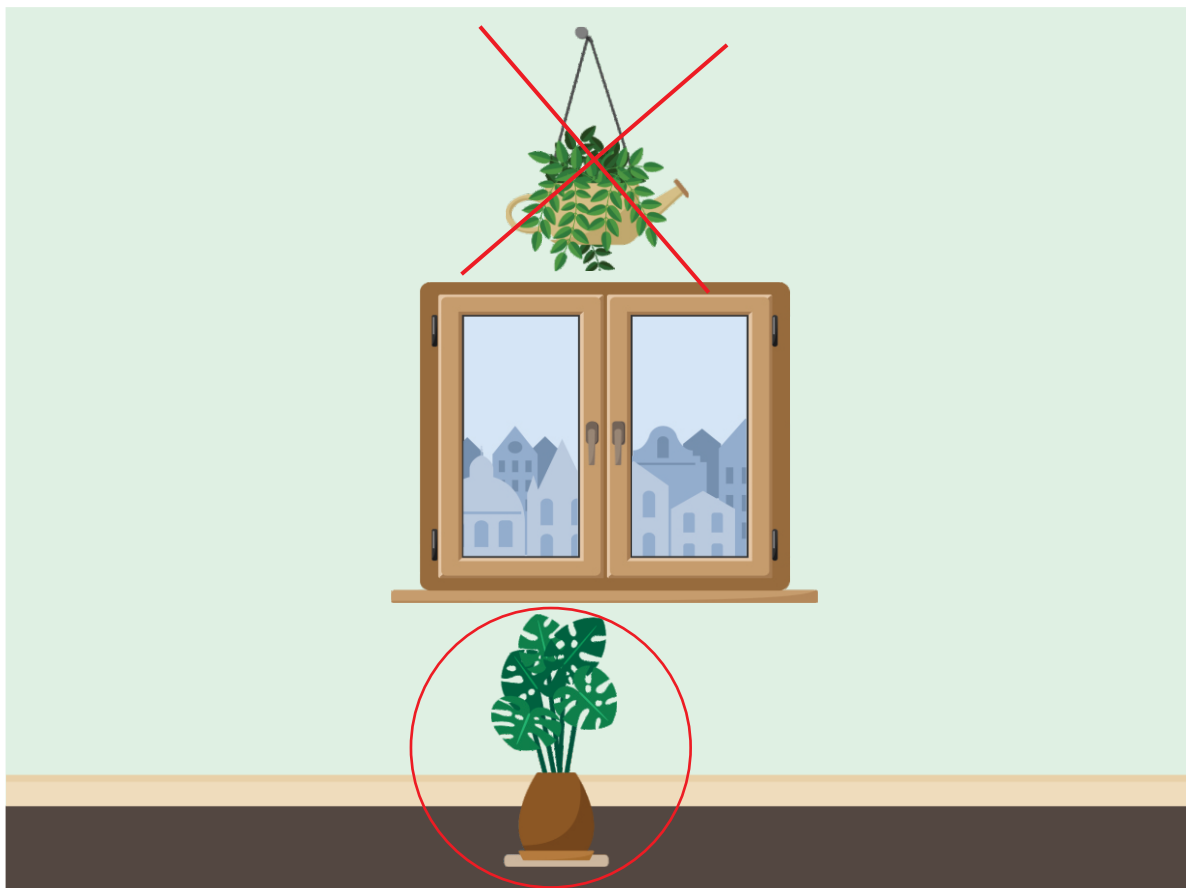


- a) The hen is _____ the henhouse.
i) over ii) above **iii) inside** iv) outside
- b) The frog is _____ the stone.
i) inside **ii) near** iii) over iv) above
- c) The butterflies are flying _____ the pond.
i) inside ii) below **iii) over** iv) under

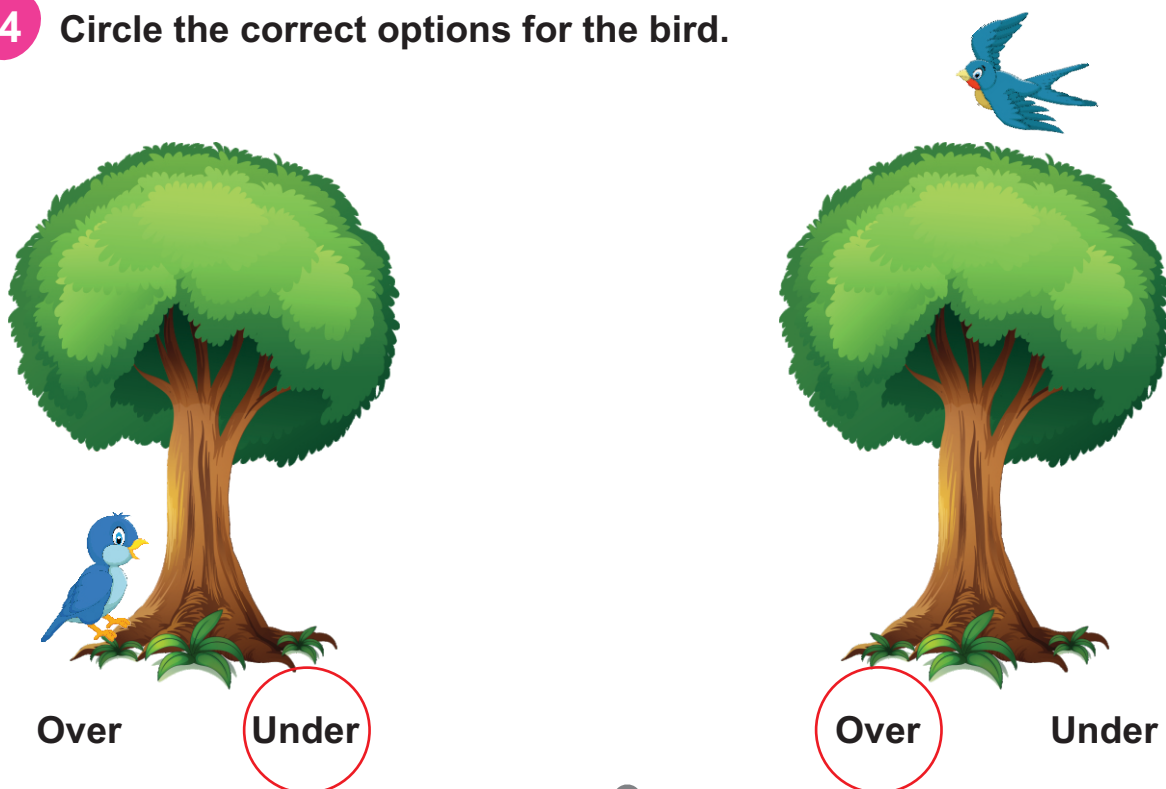
2 Circle the ladybug outside the jar.



3 Circle the plants below the window. Cross (x) the plants above it.



4 Circle the correct options for the bird.



- 5 Circle the caterpillar near the flowerpot. Cross (x) the one far from the flowerpot.



- 6 Circle the animal after the zebra.



- 7 Circle the girl before the boy.

