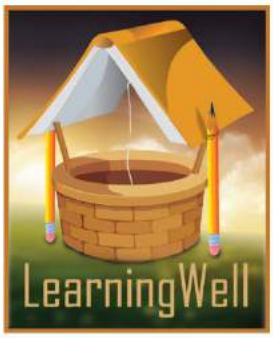


MathStep 2

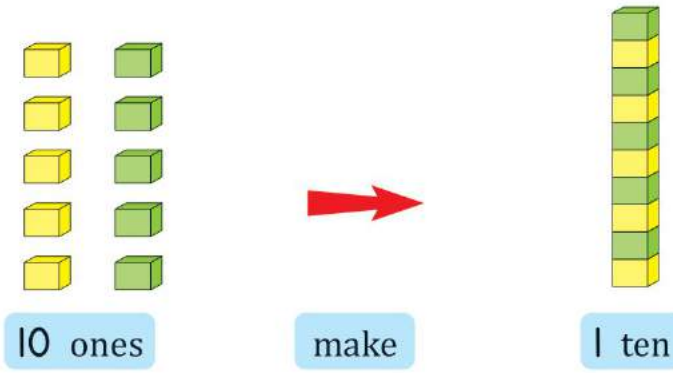
Students' Book

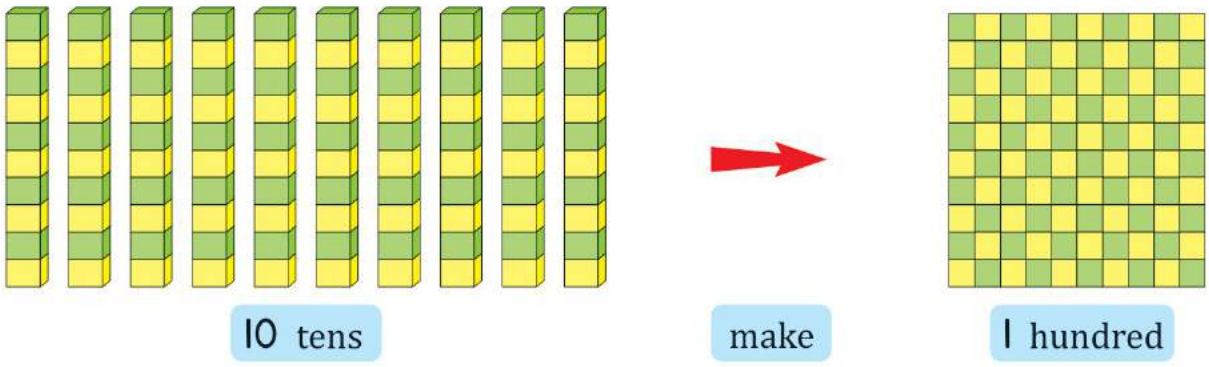
Solutions

Unit 1 Numbers to 1000

Recap Exercise

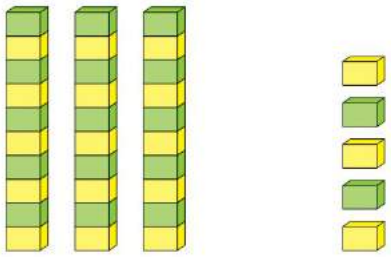
Recap - Counting to 100





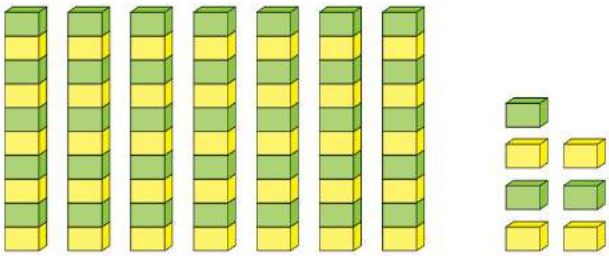
1. Count and write the numbers.

a



Tens	Ones
3	5

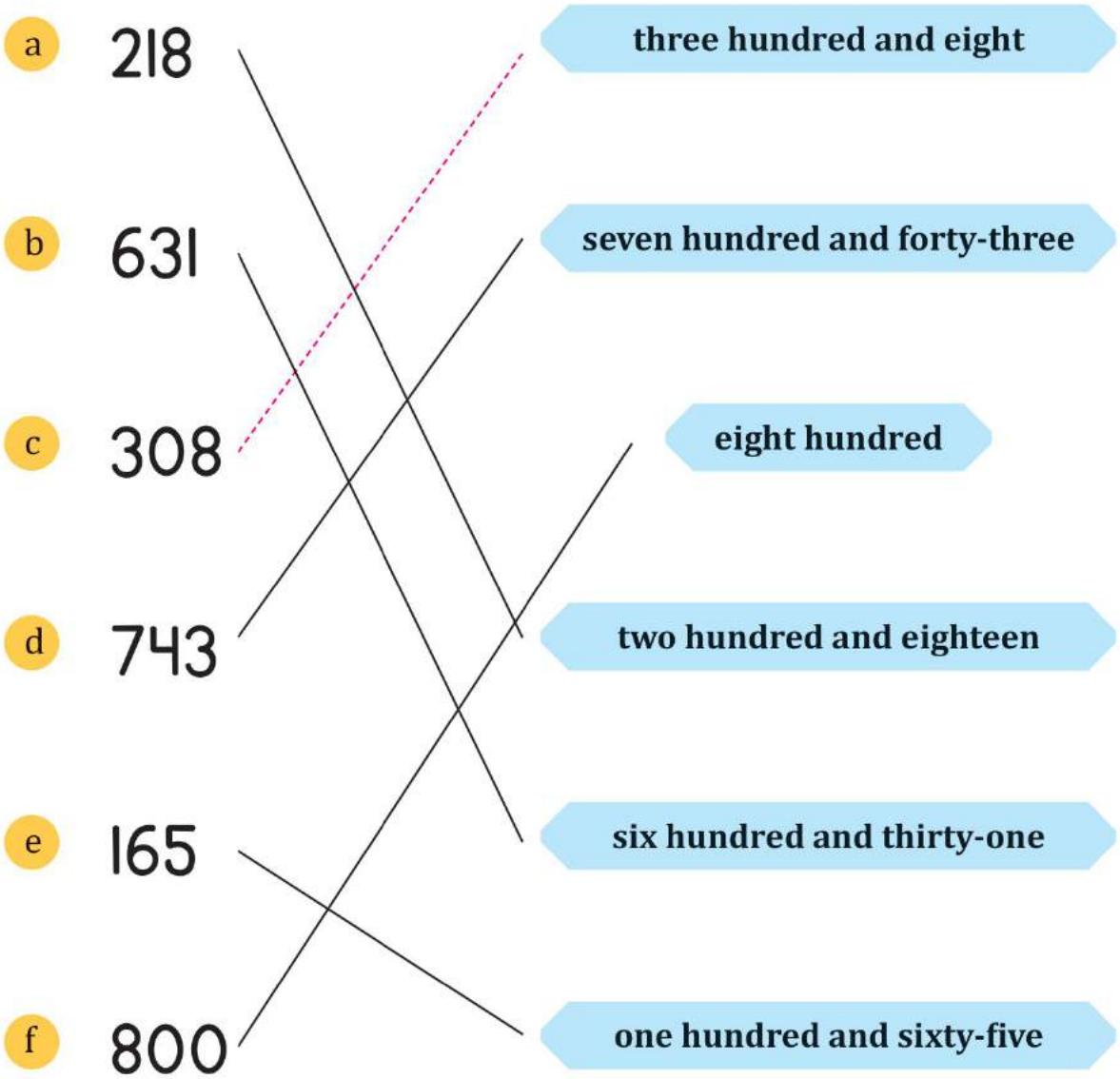
b



Tens	Ones
7	7

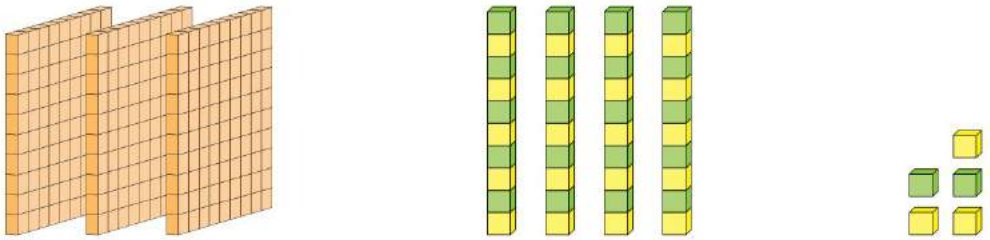
Exercise 1

1. Match the numbers to the correct words.



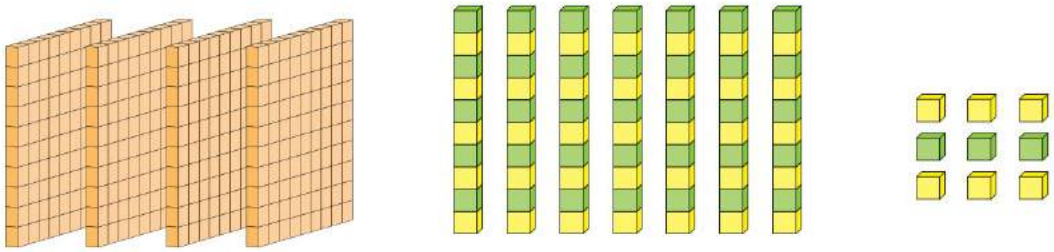
2. Count the cubes and write in numbers and words.

a



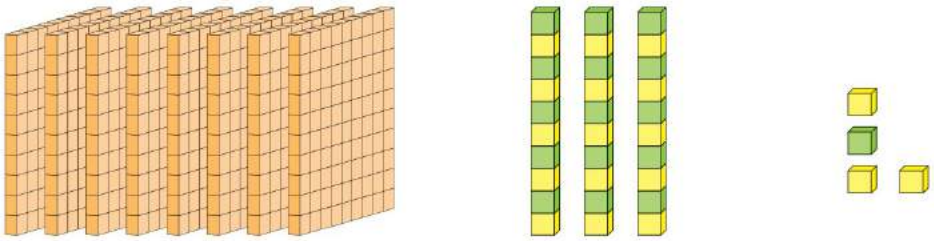
345 three hundred and forty-five

b



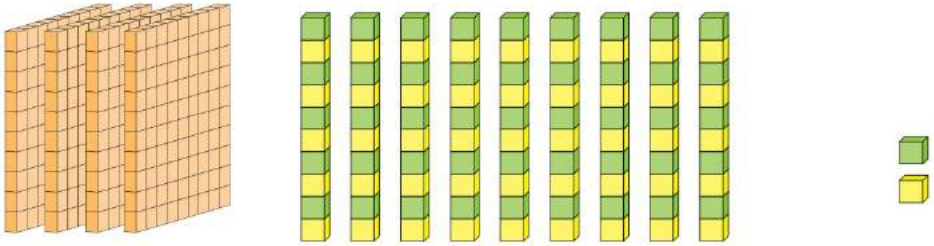
479 four hundred and seventy nine

c



834 eight hundred and thirty four

d



492 four hundred and ninety two

3. Fill in the blanks.

a) 369 = 3 hundreds 6 tens and 9 ones.

b) 482 = 4 hundreds 8 tens and 2 ones.

c) 119 = 1 hundred 1 tens and 9 ones.

d) 906 = 9 hundreds 0 tens and 6 ones.

e) 780 = 7 hundreds 8 tens and 0 ones.

f) 641 = 6 hundreds 4 tens and 1 ones.

g) 539 = 5 hundreds 3 tens and 9 ones.

h) 802 = 8 hundreds 0 tens and 2 ones.

i) 274 = 2 hundreds 7 tens and 4 ones.

j) 999 = 9 hundreds 9 tens and 9 ones.

4. Circle the correct place value of the digits.

a) In 228, the digit 8 is in the tens / (ones) place.

b) In 307, the digit 3 is in the (hundreds) / ones place.

c) In 482, the digit 8 is in the (tens) / ones place.

d) In 751, the digit 1 is in the hundreds / (ones) place.

e) In 526, the digit 2 is in the (tens) / ones place.

5. Fill in the blanks.

a

The digit 5 is in the hundreds place.

The digit 7 is in the tens place.

The digit 2 is in the ones place.

---

b

The digit 1 is in the tens place.

The digit 3 is in the ones place.

The digit 8 is in the hundreds place.

---

c

The digit 9 is in the ones place.

The digit 4 is in the hundreds place.

The digit 0 is in the tens place.

---

d

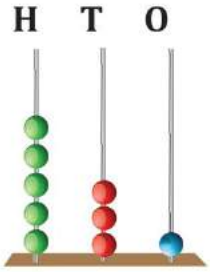
The digit 6 is in the tens place.

The digit 3 is in the hundreds place.

The digit 0 is in the ones place.

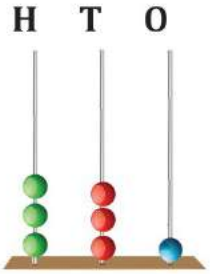
6. Count the beads and write in hundred, tens and ones.

a



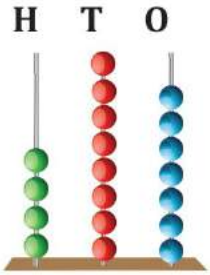
five hundred + three tens + 1 one = 531

b



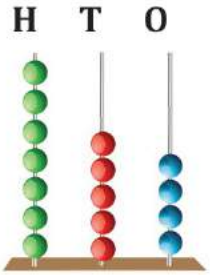
.....

c



.....

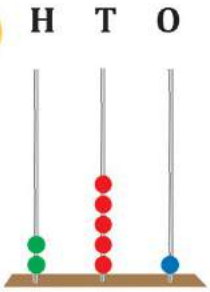
d



.....

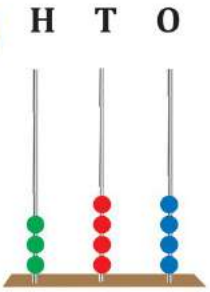
7. Draw the beads on the abacus.

a



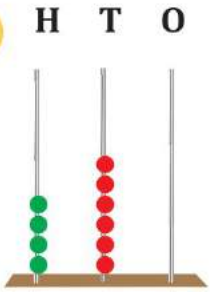
2 5 1

b



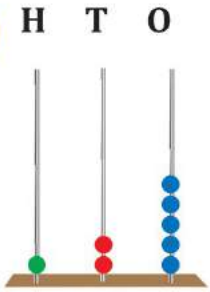
3 4 4

c



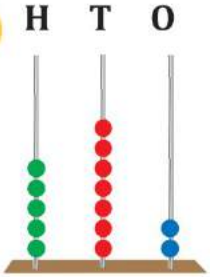
4 6 0

d



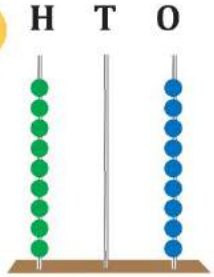
1 2 5

e



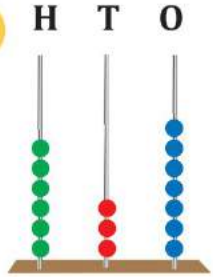
5 7 2

f



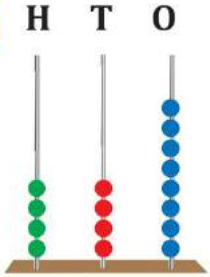
9 0 9

g



6 3 7

h



4 4 8

Exercise 2

1. Compare the numbers. Write < or > in the box.

a	342	<	540	b	137	<	334
c	802	>	788	d	220	>	110
e	456	>	358	f	610	<	669
g	720	<	763	h	541	<	545

2. What number is ...

a 1 more than 632 — 633

b 1 less than 479 — 478

c 10 more than 713 — 723

d 10 less than 546 — 536

e 100 more than 304 — 404

f 100 less than 890 — 790

3. What number comes before, after and between the given numbers?

	before		after		between		
a	332	333	580	581	175	176	177
b	449	450	639	640	263	264	265
c	683	684	221	222	321	322	323
d	524	525	701	702	779	780	781
e	120	121	846	847	584	585	586

4. Compare the numbers. Circle the greatest number. Tick the smallest number.

a	✓ 248	(750)	422	600	314
b	306	443	✓ 199	273	(557)
c	(634)	✓ 176	492	578	330
d	759	741	766	✓ 705	(783)
e	(680)	651	663	674	✓ 603

5. Arrange the numbers in ascending order.

a	419	448	126	489	450
	126	419	448	450	489
b	614	630	528	643	672
	528	614	630	643	672
c	493	159	357	609	520
	159	357	493	520	609
d	845	428	113	746	229
	113	229	428	746	845

6. Arrange the numbers in descending order.

a	550	571	500	513	534
	571	550	534	513	500
b	724	481	528	630	372
	724	630	528	481	372
c	300	502	190	666	299
	666	502	300	299	190
d	745	430	223	640	337
	745	640	430	337	223

Ordinal Numbers

Recap – 1st to 10th

1. Look at the pictures. Then fill in the blanks.

1st 

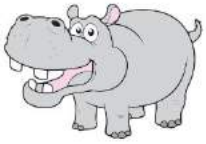
zebra

2nd 

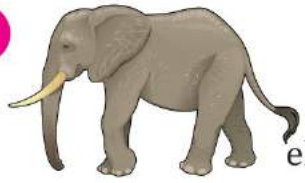
monkey

3rd 

lion

5th 

hippo

4th 

elephant

6th 

deer

a What is the position of the lion?

3rd

b What is the position of the zebra?

1st

c Which animal is in the fifth position?

Hippo

d Which animal is last?

Deer

e What is the position of the monkey?

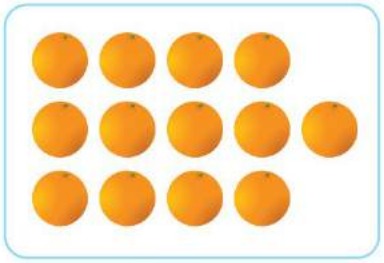
2nd

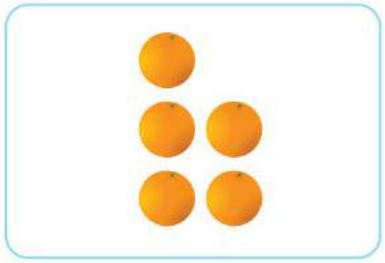
Unit 2 Addition within 1000

Recap Exercise

Recap – Addition within 100

1. How many oranges are there altogether?

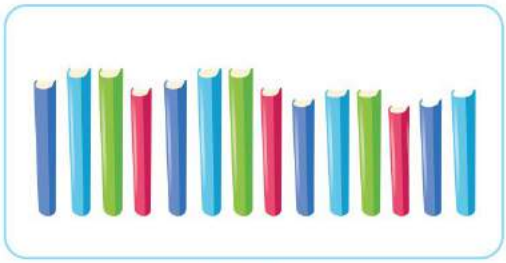




13 + 5 = 18

There are 18 oranges altogether.

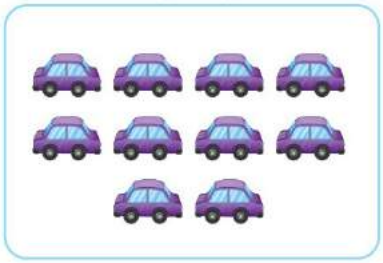
2. How many books are there altogether ?



14 + 4 = 18

There are 18 books altogether.

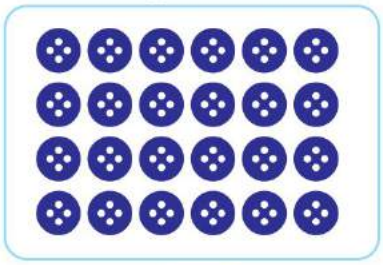
3. How many toys are there altogether?

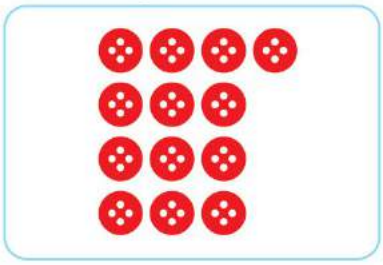


	T	O
	1	0
+		6
	1	6

There are 16 toys altogether.

4. How many buttons are there altogether?





	T	O
	2	4
+	1	3
	3	7

There are 37 buttons altogether.

5. Add

a	T	O
		5
+		0
		5

b	T	O
	2	6
+	1	3
	3	9

c	T	O
	3	4
+	3	5
	6	9

d	T	O
	6	0
+	2	8
	8	8

Exercise 1

1. Add the given numbers.

a	T	O
	① 1	9
+		6
	2	5

b	T	O
	① 2	8
+		3
	3	1

c	T	O
	① 3	7
+		7
	4	4

d	T	O
	① 5	6
+		8
	6	4

e

T	O
① 4	3
+	9
5	2

f

T	O
① 7	5
+	5
8	0

g

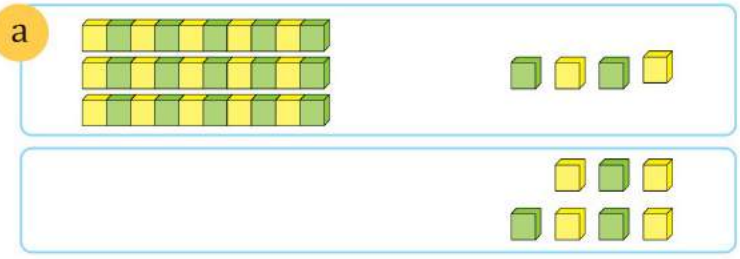
T	O
① 6	6
+	6
7	2

h

T	O
① 9	9
+	4
1	0 3

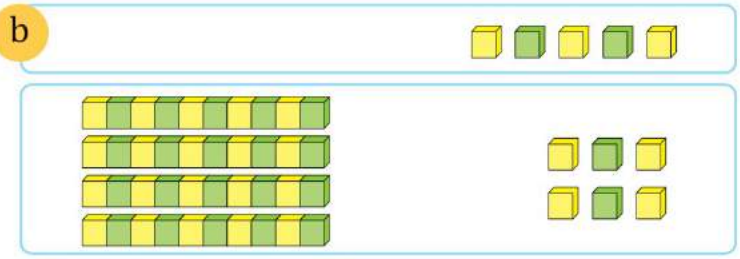
2. Count the tens and ones. Then add.

a



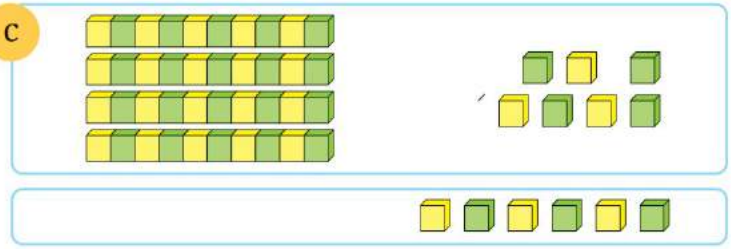
Tens T	Ones O
① 3	4
+	7
4	1

b



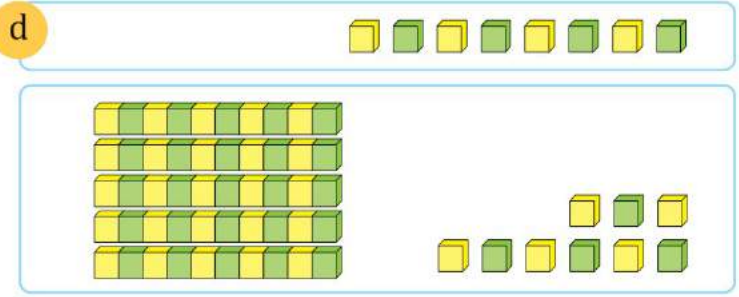
Tens T	Ones O
	5
+ 4	6
5	1

c



Tens T	Ones O
4	7
+	6
5	3

d



Tens T	Ones O
	8
+ 6	9
6	7

Exercise 2

1. Add the given numbers.

a

T	O
① 2	7
+ 2	5
5	2

b

T	O
① 4	4
+ 1	8
6	2

c

T	O
① 3	7
+ 4	3
8	0

d

T	O
① 2	6
+ 3	6
6	2

e

T	O
① 5	9
+ 3	5
9	4

f

T	O
① 6	5
+ 3	5
1	0 0

g

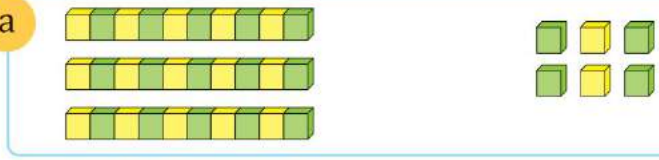
T	O
① 1	9
+ 6	3
8	2

h

T	O
① 4	8
+ 2	9
7	7

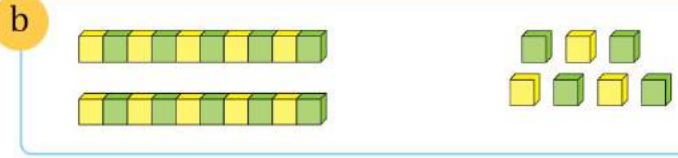
2. Count the tens and ones. Then add.

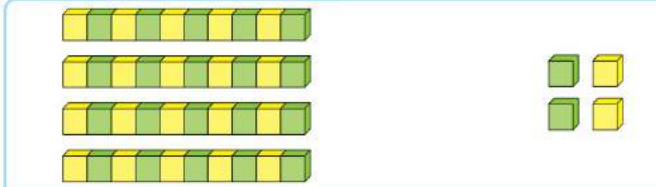
a



Tens T	Ones O
① 3	6
+ 2	5
6	1

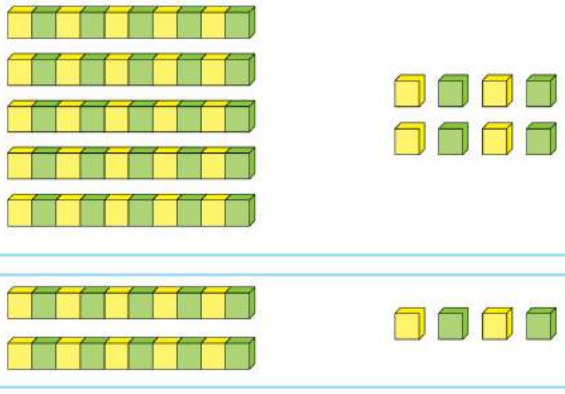
b





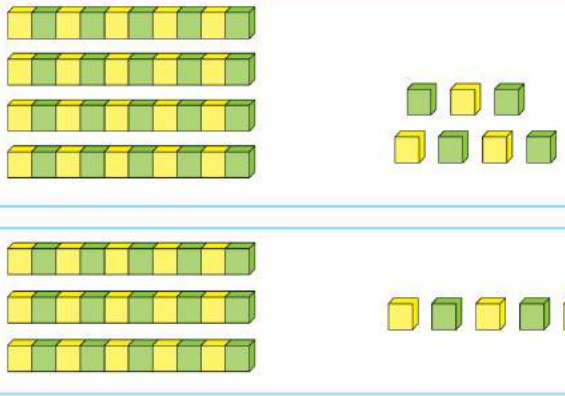
Tens T	Ones O
① 2	7
+ 4	4
7	1

c



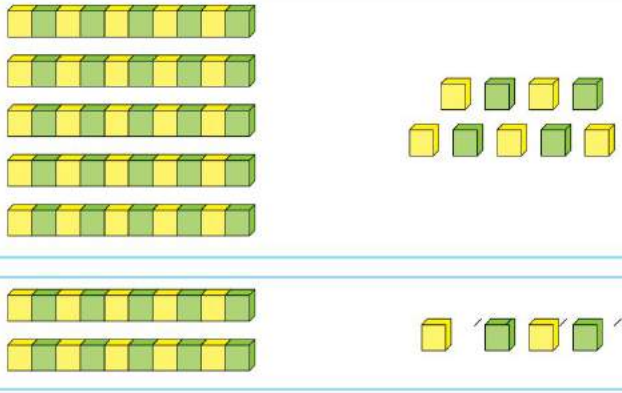
Tens T	Ones O
①5	8
+ 2	4
8	2

d



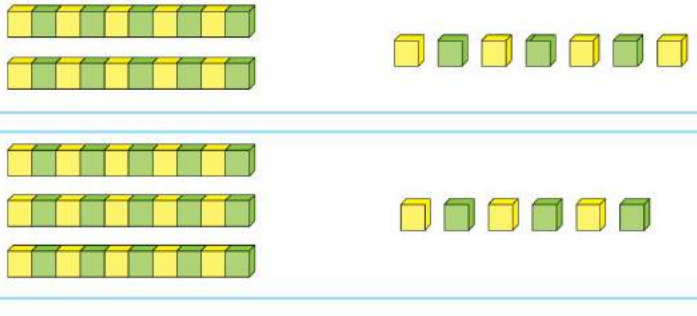
Tens T	Ones O
①4	7
+ 3	6
8	3

e



Tens T	Ones O
①5	9
+ 2	4
8	3

f



Tens T	Ones O
①2	7
+ 3	6
6	3

Exercise 3

1. Add the following mentally.

a) 5 + 28 = 33 b) 13 + 17 = 30 c) 34 + 15 = 49

d) 12 + 18 = 30 e) 9 + 14 = 23 f) 30 + 19 = 49

g) 29 + 22 = 51 h) 33 + 16 = 49 i) 31 + 8 = 39

a) 5 + 28
5 + 8 + 20
13 + 20
30

b) 13 + 17
10 + 3 + 10 + 7
10 + 30 + 3 + 7
30

c) 34 + 15
30 + 4 + 10 + 5
30 + 10 + 4 + 5
40 + 9 = 49

2. Add the given numbers.

a

	H	T	O
	2	2	2
+	2	0	3
	4	2	5

b

	H	T	O
	6	3	2
+		1	4
	6	4	6

c

	H	T	O
	2	3	7
+	1	5	1
	3	8	8

d

	H	T	O
	4	6	3
+		1	6
	4	7	9

e

	H	T	O
	3	2	0
+			4
	3	2	4

f

	H	T	O
	6	2	5
+		7	3
	6	9	8

g

H	T	O
4	2	5
+ 2	1	4
6	3	9

h

H	T	O
3	6	3
+	2	1
3	8	4

i

H	T	O
1	4	0
+ 7	0	9
8	4	9

j

H	T	O
6	4	2
+ 3	0	0
9	4	2

k

H	T	O
5	9	0
+		8
5	9	8

l

H	T	O
3	1	0
+ 6	4	0
9	5	0

Exercise 4

1. Add the given numbers.

a

H	T	O
2	① 2	8
+ 1	0	3
3	3	1

b

H	T	O
6	① 3	5
+	3	7
6	7	2

c

H	T	O
① 3	8	7
+ 2	5	2
6	3	9

d

H	T	O
7	① 6	3
+		7
7	7	0

e

H	T	O
3	① 2	8
+		4
3	3	2

f

H	T	O
① 6	8	5
+	7	3
7	5	8

g

H	T	O
3	①5	9
+		6
3	6	5

h

H	T	O
①2	①5	8
+ 5	5	4
8	1	2

i

H	T	O
①5	①2	6
+	8	6
6	1	2

j

H	T	O
①4	①7	2
+ 3	2	9
8	0	1

k

H	T	O
①5	①9	7
+ 1	0	8
7	0	5

l

H	T	O
①3	①0	9
+ 5	0	9
8	1	8

Exercise 5

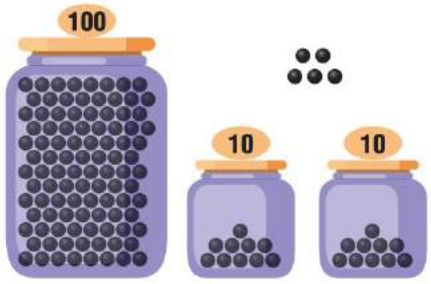
1. Aamir sells 78 oranges on Monday. He sells 23 oranges on Tuesday. How many oranges does he sell altogether?

78 + 23 = 101

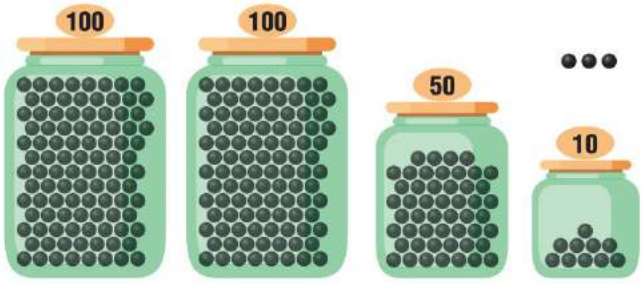
Aamir sells 101 oranges altogether.

H	T	O
	①7	8
+	2	3
1	0	1

2. Sami has 125 marbles. Ali has 263 marbles. How many marbles do the boys have altogether?



Sami



Ali

125 + 263 = 388

	H	T	O
	1	2	5
+	2	6	3
	3	8	8

Sami and Ali have 388 marbles altogether.

3. 293 people visited the City Zoo on Friday. 345 people visited the zoo on Saturday. How many people visited the zoo on both days?

293 + 345 = 638

	H	T	O
	1	2	5
+	2	6	3
	3	8	8

638 people visited the zoo on both days.

Unit 3 Subtraction within 1000

Recap Exercise

Recap – Subtraction within 100

1. How many chalks are left?

11 – 6 = 5

There are 5 chalks left.

2. How many pens are left?

14 – 5 = 9

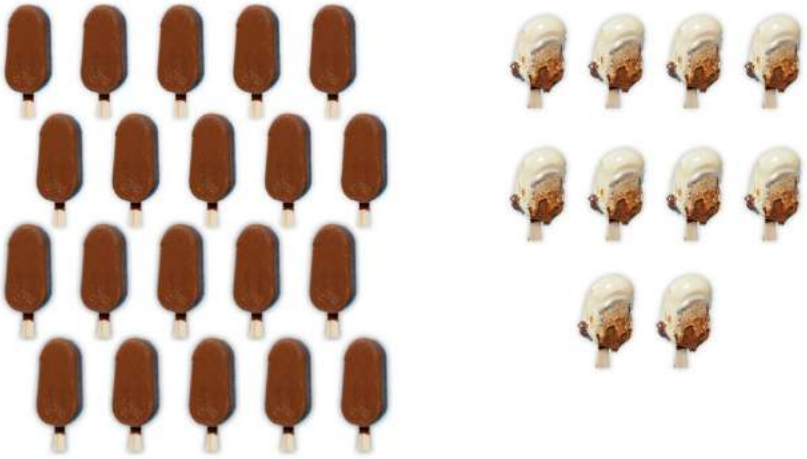
There are 9 pens left.

3. How many vases are left?

	T	O
	1	4
−		4
	1	0

There are **10** vases left.

4. How many ice-creams are left?



	T	O
	2	5
−	1	0
	1	5

There are **10** ice creams left.

5. Subtract .

a	T	O
		9
−		6
		3

b	T	O
	4	6
−	1	3
	3	3

c	T	O
	8	7
−	3	0
	5	7

d	T	O
	6	5
−	2	2
	4	3

Exercise 1

1. Subtract the given numbers.

a	T	O
	1 2	1 4
−		7
	1	7

b	T	O
	2 3	1
−		4
	2	7

c	T	O
	3 4	1 6
−		9
	3	7

d	T	O
	4 5	1 3
−		6
	4	7

e	T	O
	5 6	1 2
−		3
	5	9

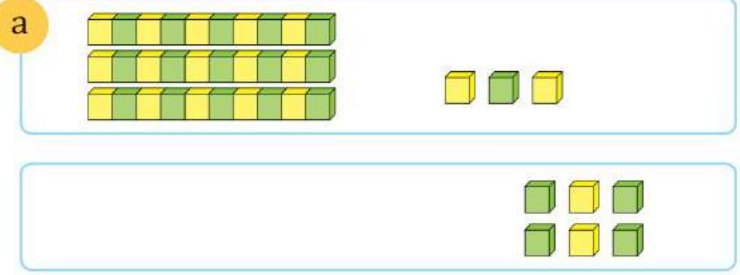
f	T	O
	6 7	1 0
−		5
	6	5

g	T	O
	7 8	1 4
−		8
	7	6

h	T	O
	8 9	1 3
−		4
	8	9

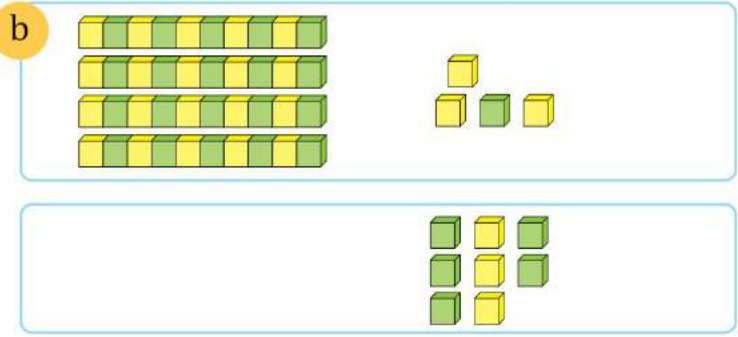
2. Count the tens and ones. Then subtract.

a



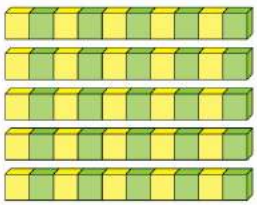
Tens (T)	Ones (O)
2 3	1 3
−	6
2	7

b



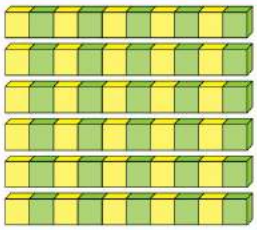
Tens (T)	Ones (O)
3 4	1 4
−	8
3	6

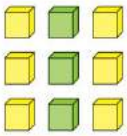
c



Tens T	Ones O
~~5~~ 4	10
–	4
4	6

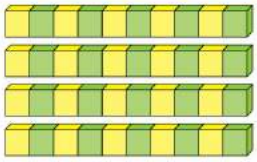
d

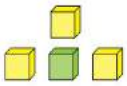


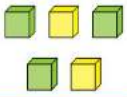


Tens T	Ones O
~~6~~ 5	14
–	9
5	5

e

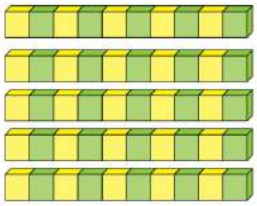


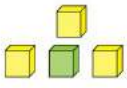


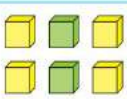


Tens T	Ones O
~~4~~ 3	14
–	5
3	9

f







Tens T	Ones O
~~5~~ 4	14
–	6
4	8

Exercise 2

1. Subtract the given numbers.

a

T	O
~~2~~ 3	1 2
− 2	5
	7

b

T	O
~~3~~ 4	1 4
− 1	8
2	6

c

T	O
~~3~~ 4	1 0
− 1	3
2	6

d

T	O
~~4~~ 5	1 2
− 3	8
1	4

e

T	O
~~4~~ 5	1 1
− 3	4
1	7

f

T	O
~~5~~ 6	1 5
− 3	9
2	6

g

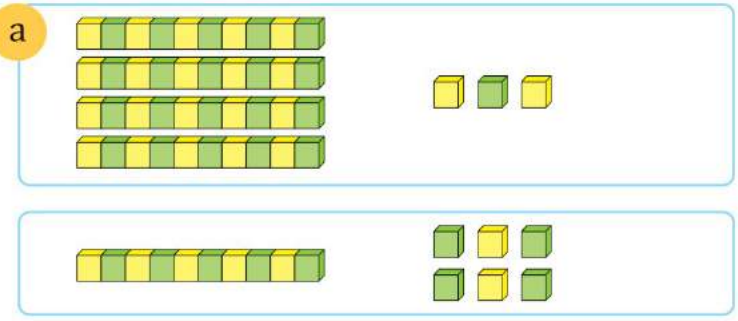
T	O
~~6~~ 7	1 4
− 4	6
2	8

h

T	O
~~3~~ 4	1 8
− 2	9
1	9

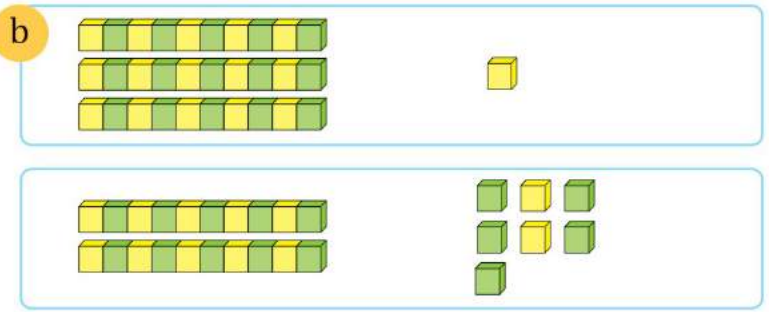
2. Count the tens and ones. Then subtract.

a



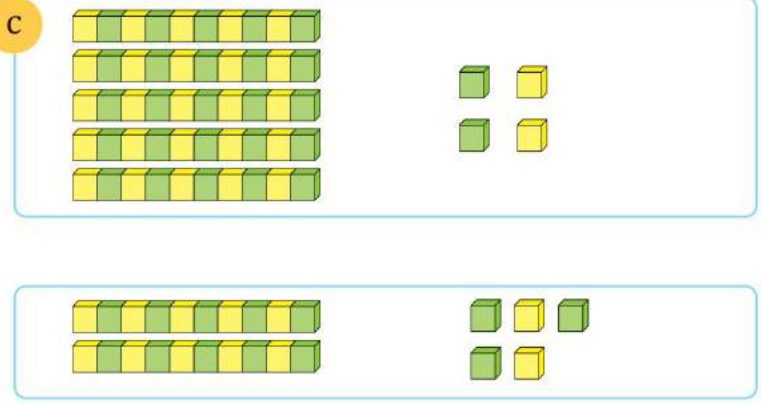
Tens T	Ones O
~~3~~ 4	1 3
− 1	6
2	7

b



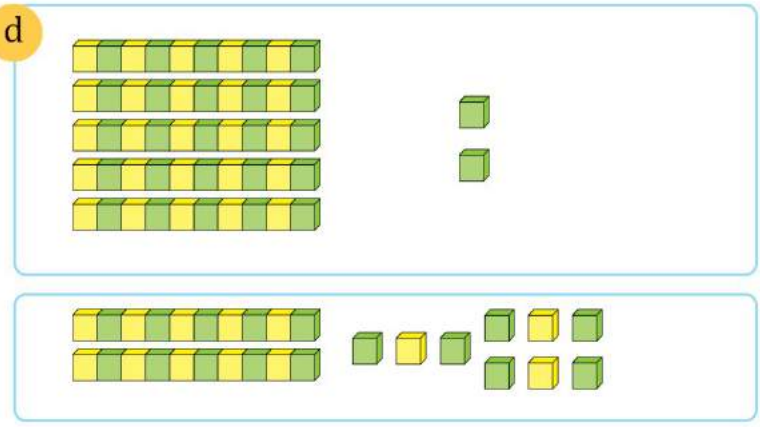
Tens T	Ones O
~~3~~ 3	1 1
−	7
0	4

c



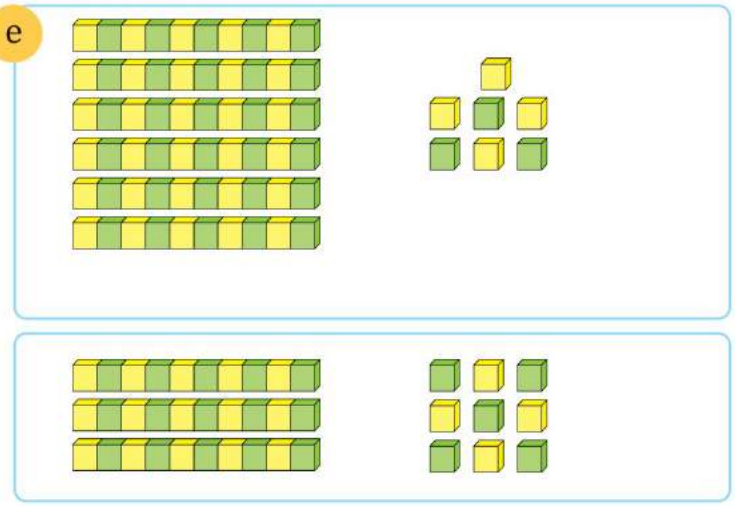
Tens T	Ones O
~~5~~ 4	14
2	5
2	9

d



Tens T	Ones O
~~5~~ 4	12
2	9
2	3

e



Tens T	Ones O
~~6~~ 5	17
3	9
2	8

Exercise 3

1. Subtract the following mentally.

a) 25 – 8 = 17 b) 45 – 27 = 18 c) 34 – 15 = 19

d) 36 – 17 = 19 e) 9 – 14 = 5 f) 30 – 19 = 11

g) 29 – 22 = 7 h) 33 – 16 = 17 i) 31 – 8 = 23

2. Subtract the given numbers.

a

H	T	O
1	4	7
–		3
1	4	4

b

H	T	O
2	3	9
–		7
2	3	2

c

H	T	O
3	8	7
–	2	6
3	6	1

d

H	T	O
4	8	3
–	7	1
4	1	2

e

H	T	O
7	5	4
–	3	4
7	2	0

f

H	T	O
6	6	9
–	5	9
6	1	0

g

H	T	O
8	7	8
– 2	4	3
6	3	5

h

H	T	O
9	5	6
– 5	2	1
4	3	5

i

H	T	O
4	1	6
– 1	0	1
3	1	5

j

H	T	O
5	4	6
– 2	1	4
3	3	2

k

H	T	O
5	6	3
– 3	2	1
2	4	2

l

H	T	O
7	5	4
– 6	0	0
1	5	4

m

H	T	O
6	4	2
– 4	3	0
2	1	2

n

H	T	O
5	9	7
– 2	0	5
3	9	2

o

H	T	O
9	7	0
– 6	4	0
3	3	0

Exercise 4

1. Subtract the given numbers.

a

H	T	O
2	$^{1}\not{2}$	$^{1}2$
–		3
2	1	9

b

H	T	O
6	$^{7}\not{8}$	$^{1}5$
–		7
6	7	8

c

H	T	O
3	$^{7}\not{8}$	$^{1}4$
–	5	8
3	2	6

d

H	T	O
7	$^{5}\not{6}$	$^{1}3$
–	4	6
7	1	7

e

H	T	O
$^{4}\not{5}$	$^{11}\not{2}$	$^{1}1$
–	2	3
4	9	8

f

H	T	O
6	$^{7}\not{8}$	$^{1}6$
–	7	7
6	0	9

g

H	T	O
4	4 5	1 0
− 2	4	6
2	0	4

h

H	T	O
5	4 5	1 4
− 3	1	8
2	3	6

i

H	T	O
4 5	1 2	1 6
− 1	8	6
3	4	0

j

H	T	O
3 4	11 2	1 5
− 2	7	9
1	4	6

k

H	T	O
7	5 6	1 3
− 4	4	8
3	1	5

l

H	T	O
5	8 9	1 4
− 1	5	9
4	3	5

Exercise 5

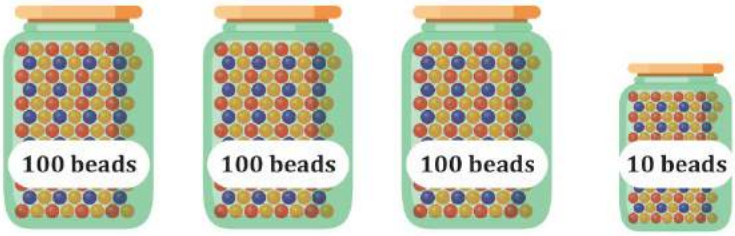
1. Hamid has 250 apples. He sells 120 apples on Friday. How many oranges does he have left?

250 - 120 = 130

Hamid has 130 apples left.

H	T	O
2	5	0
− 1	2	0
1	3	0

2. Saira has 310 beads. She gives 284 beads to her friends. How many beads does she have left?



310 - 284 = 26

Saira has 26 beads left.

	H	T	O
	~~2~~3	~~11~~1	~~1~~0
−	2	8	4
	0	2	6

3. 293 people visited the park on Friday. 447 people visited the park on Saturday. How many more people visited the park on Saturday than Friday?

447 - 293 = 154

154 more people visited the park on Saturday.

	H	T	O
	~~3~~4	~~1~~4	~~1~~7
−	2	9	3
	1	5	4

Unit 4 Multiplication

Exercise 1

1. Match.

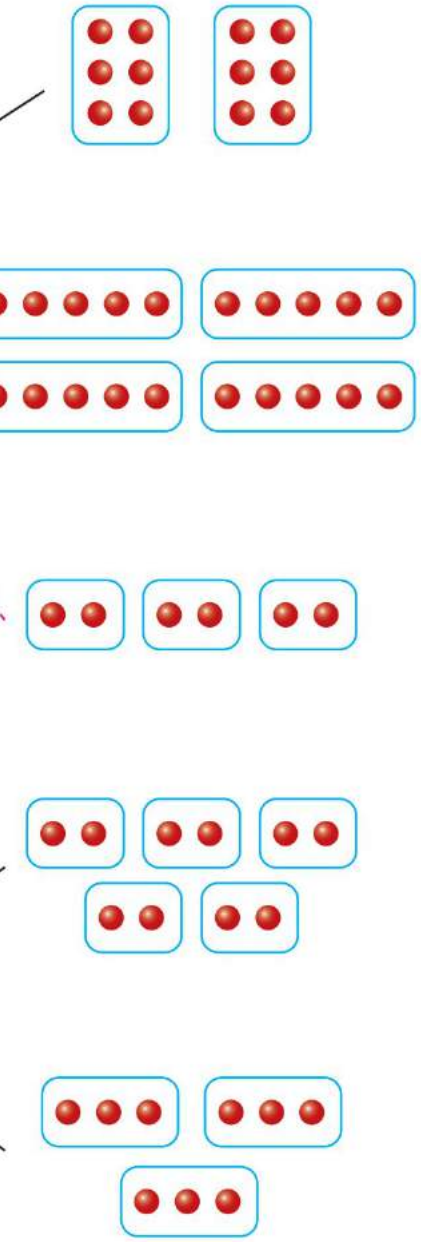
a 3 groups of 2

b 2 groups of 6

c 4 groups of 5

d 3 groups of 3

e 5 groups of 2



2. Match.

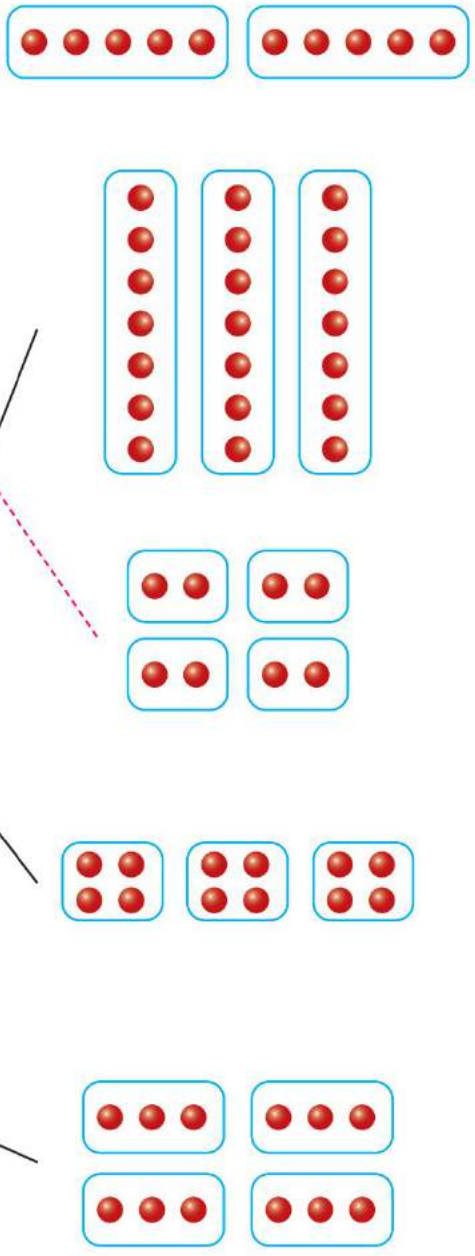
a 2 + 2 + 2 + 2

b 4 + 4 + 4

c 5 + 5

d 3 + 3 + 3 + 3

e 7 + 7 + 7



Exercise 2

1. How many shoes are there altogether?

There are 4 pairs of shoes.
Each pair has 2 shoes.

4 times 2 = 8

4 × 2 = 8

There are 8 shoes altogether.

2. How many dates are there?

There are 7 boxes.
Each box has 2 dates.

7 times 2 = 14

7 × 2 = 14

There are 14 dates altogether.

3. How many stars are there?

There are 9 groups.

Each group has 2 stars.

9 times 2 = 18

9 × 2 = 18

There are 18 stars altogether.

4. Multiply mentally. Recall the table of 2.

a. 3 × 2 = 6

b. 7 × 2 = 14

c. 10 × 2 = 20

d. 8 × 2 = 16

e. 4 × 2 = 8

f. 9 × 2 = 18

Exercise 3

1. How many balls are there altogether?

There are 3 boxes.

There are 5 balls in each box

3 times 5 = 15

3 × 5 = 15

There are 15 balls altogether.

2. How many books are there?

There are 5 piles of books.

Each pile has 5 books.

5 times 5 = 25

5 × 5 = 25

There are 25 books altogether.

3. How many stars are there?

There are 8 groups.

Each group has 5 stars.

8 times 5 = 40

8 × 5 = 40

There are 40 stars altogether.

4. Multiply mentally. Recall the table of 5.

a) 3 × 5 = 15

b) 7 × 5 = 35

c) 2 × 5 = 10

d) 4 × 5 = 20

e) 9 × 5 = 45

f) 10 × 5 = 50

Exercise 4

1. How many marbles are there altogether?

There are 5 bags.
There are 10 marbles in each bag.

5 times 10 = 50

5 × 10 = 50

There are 50 marbles altogether.

2. How many pearls are there?

There are 9 strings.
Each string has 10 pearls.

9 times 10 = 90

9 × 10 = 90

There are 90 pearls altogether.

3. Multiply mentally. Recall the table of 10.

a) 3 × 10 = 30

b) 6 × 10 = 60

c) 10 × 10 = 100

d) 7 × 10 = 70

Exercise 5

1. How many planes are there altogether?

There are 4 groups.

There are 3 planes in each group.

4 times 3 = 12

4 × 3 = 12

There are 12 planes altogether.

2. How many cars are there?

There are 6 boxes.

Each box has 3 cars.

6 times 3 = 18

6 × 3 = 18

There are 18 cars altogether.

3. How many marbles are there?

There are 7 groups.

Each group has 3 marbles.

7 times 3 = 21

7 × 3 = 21

There are 21 marbles altogether.

4. Multiply mentally. Recall the table of 3.

a) 5 × 3 = 15

b) 4 × 3 = 12

c) 6 × 3 = 18

d) 8 × 3 = 24

e) 9 × 3 = 27

f) 10 × 3 = 30

Exercise 6

1. How many bees are there altogether?

There are 3 groups.

There are 4 bees in each group.

3 times 4 = 12

3 × 4 = 12

There are 12 bees altogether.

2. How many birds are there?

There are 5 cages.

Each cage has 4 birds.

5 times 4 = 20

5 × 4 = 20

There are 20 birds altogether.

3. How many buttons are there?

There are 7 groups.

Each group has 4 buttons.

7 times 4 = 28

7 × 4 = 28

There are 28 buttons altogether.

4. Multiply mentally. Recall the table of 4.

a) 2 × 4 = 8

b) 5 × 4 = 20

c) 3 × 4 = 12

d) 4 × 4 = 16

e) 9 × 4 = 36

f) 6 × 4 = 24

Exercise 7

1. There are 3 baskets. Each basket has 5 kittens. How many kittens are there altogether?

3 times 5 = 15

3 × 5 = 15

There are 15 kittens altogether.

2. Maha has 4 boxes. Each box has 10 crayons. How many crayons are there altogether?

4 times 10 = 40

4 × 10 = 40

There are 40 crayons altogether.

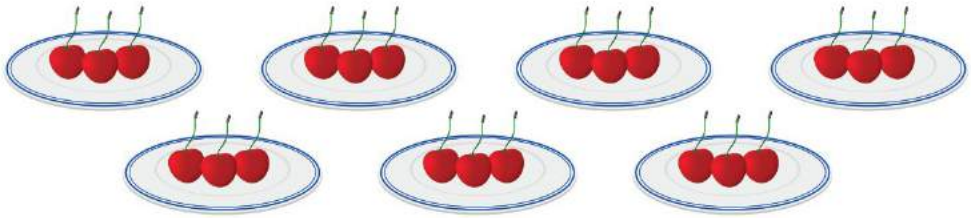
3. Ali sells 6 boxes of cupcakes. Each box has 4 cupcakes. How many cup onenord cakes did he sell altogether?

6 times 4 = 24

6 × 4 = 24

Ali sells 24 cupcakes altogether.

4. There are 7 plates. Each plate has 3 cherries. How many cherries are there altogether?



7 times 3 = 21

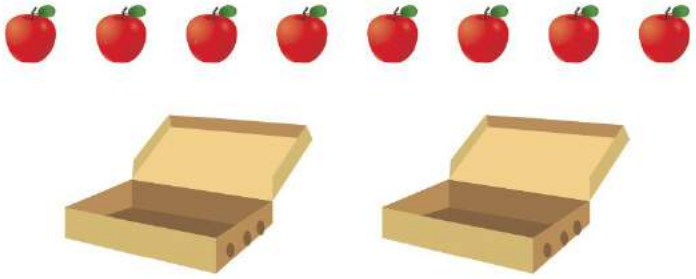
7 × 3 = 21

There are 21 cherries altogether.

Unit 5 Division

Exercise 1

1. Ahmed has 8 apples and two boxes. How many apples does he put in each box?



$8 - 2 = 6$

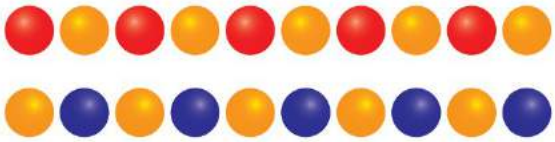
$6 - 2 =$ 4

$4 - 2 =$ 2

$2 - 2 =$ 0

He puts 4 apples in each box.

2. Rida has 20 beads. She has 5 strings. How many beads does she put in each string?



$20 - 5 = 15$

$15 -$ 5 $=$ 10

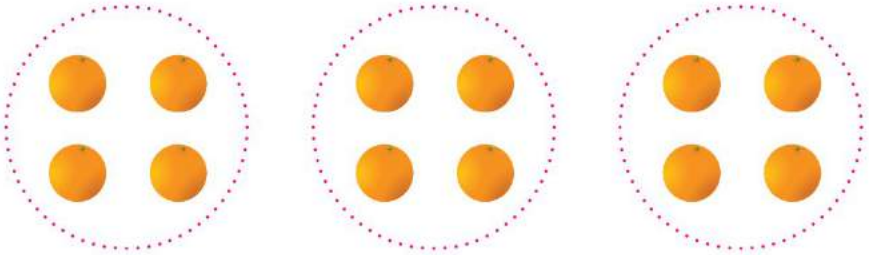
$10 -$ 5 $=$ 5

$5 -$ 5 $=$ 0

She puts 4 beads in each string.

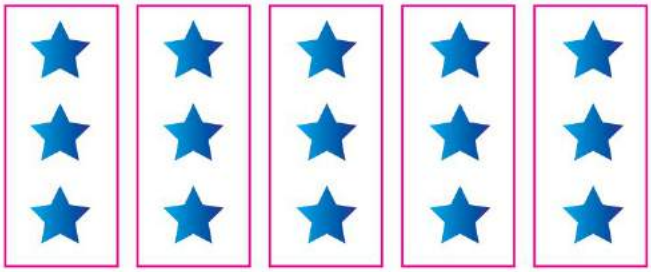
Exercise 2

1. There are 12 oranges. Make equal groups of 4.



There are 3 groups of 4.

2. Sara has 15 stars. She makes equal groups of 3.

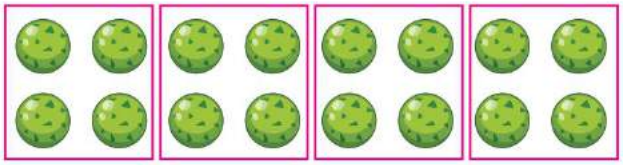


Sara makes 5 groups of 3.

3. Ali has 10 marbles. He makes equal groups of 2.

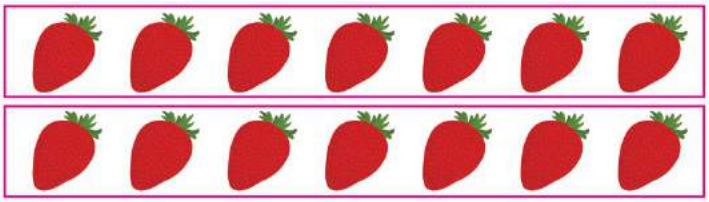
There are 5 groups of 2.

4. Maha has 16 beads. She makes equal groups of 4.



There are 4 groups of 4.

5. There are 14 strawberries. Make equal groups of 7.



There are 2 groups of 7.

6. Maria has 20 bows. How many groups of 5 can she make?

She can make 4 groups of 5.

Exercise 3

1. There are 6 dolls. Divide them into 2 groups. How many dolls are there in each group?

$6 \div 2 = 3$

There are 3 dolls in each group.

2. There are 10 books. Divide them into 2 groups. How many books are there in each group?

$10 \div 2 = 3$

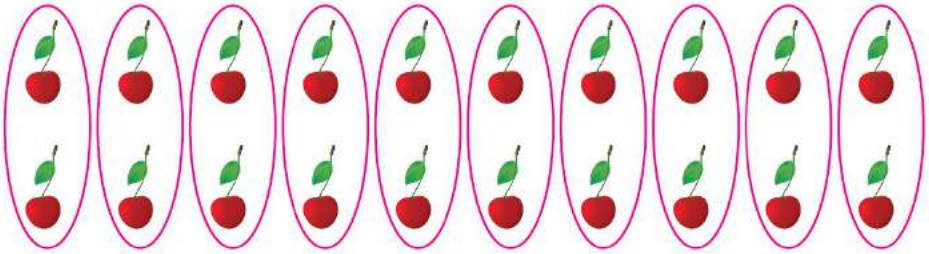
There are 3 books in each group.

3. Nida has 18 cupcakes. She puts the cupcakes in groups of 2. How many groups does she make?

18 ÷ 2 = 9

She makes 9 groups of 2 cupcakes.

4. Mrs Ahmed has 20 cherries. She wants to put only 2 cherries on one cake. How many cakes does she need?



20 ÷ 2 = 10

She needs 10 cakes.

5. Fill in the blanks.

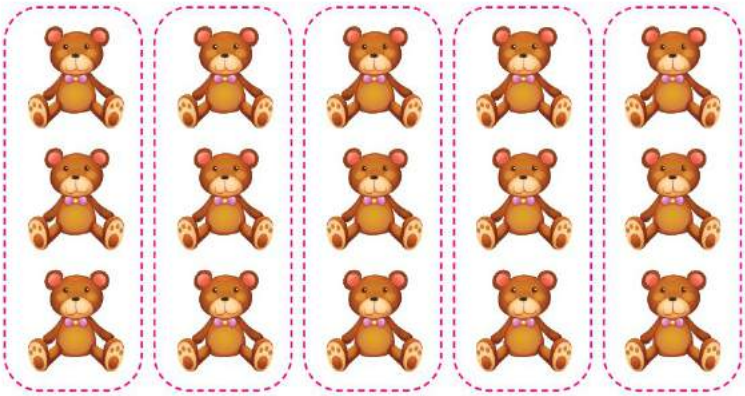
a. 6 ÷ 2 = 3 ⟷ 3 × 2 = 6

b. 16 ÷ 2 = 8 ⟷ 8 × 2 = 16

c. 18 ÷ 2 = 9 ⟷ 9 × 2 = 18

Exercise 4

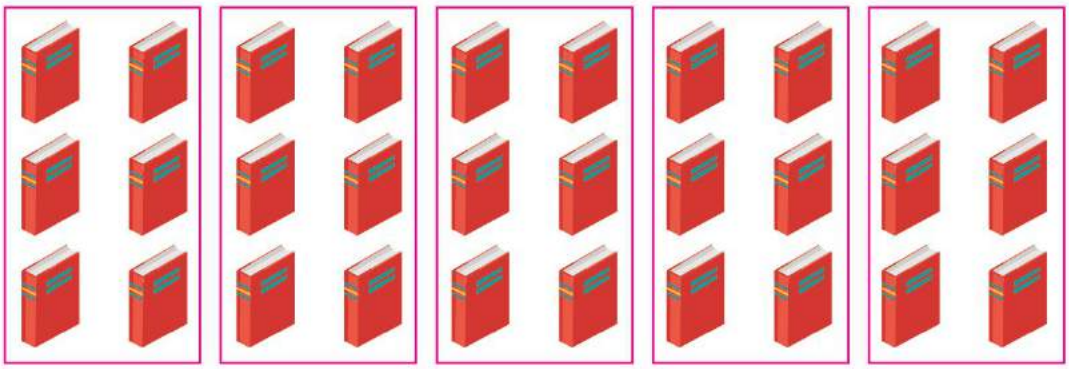
1. There are 15 teddy bears. Divide them into 5 groups. How many bears are there in each group?



15 ÷ 5 = 3

There are 3 bears in each group.

2. There are 30 books. Divide them into 5 groups. How many books are there in each group?



30 ÷ 5 = 6

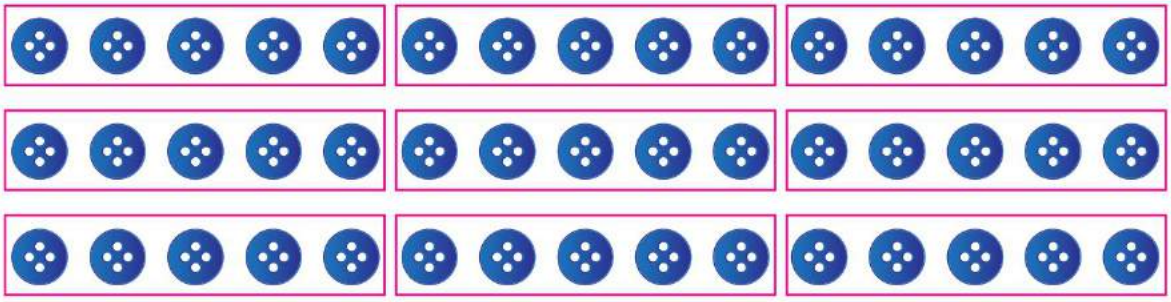
There are 6 books in each group.

3. Nora has 20 sweets. She puts the sweets in groups of 5. How many groups does she make?

20 ÷ 5 = 4

She makes 4 groups of 5 sweets.

4. Mrs Shahid has 45 buttons. She wants to put only 5 buttons on a shirt. How many shirts does she need?



45 ÷ 5 = 9

She needs 9 shirts.

5. Fill in the blanks.

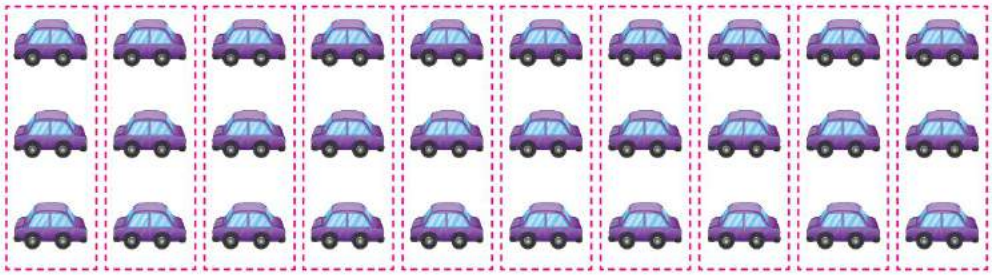
a. 10 ÷ 5 = 2 ⟷ 2 × 5 = 10

b. 25 ÷ 5 = 5 ⟷ 5 × 5 = 25

c. 30 ÷ 5 = 6 ⟷ 6 × 5 = 30

Exercise 5

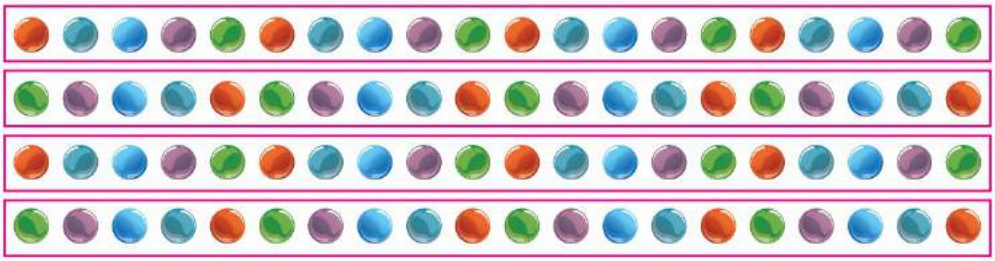
1. There are 30 cars. Divide them into 10 groups. How many cars are there in each group?



30 ÷ 10 = 3

There are 3 cars in each group.

2. Rida has 80 beads. She arranges them in groups of 10. How many groups does she make?



30 ÷ 10 = 3

She makes 3 groups of 10 beads.

3. Fill in the blanks.

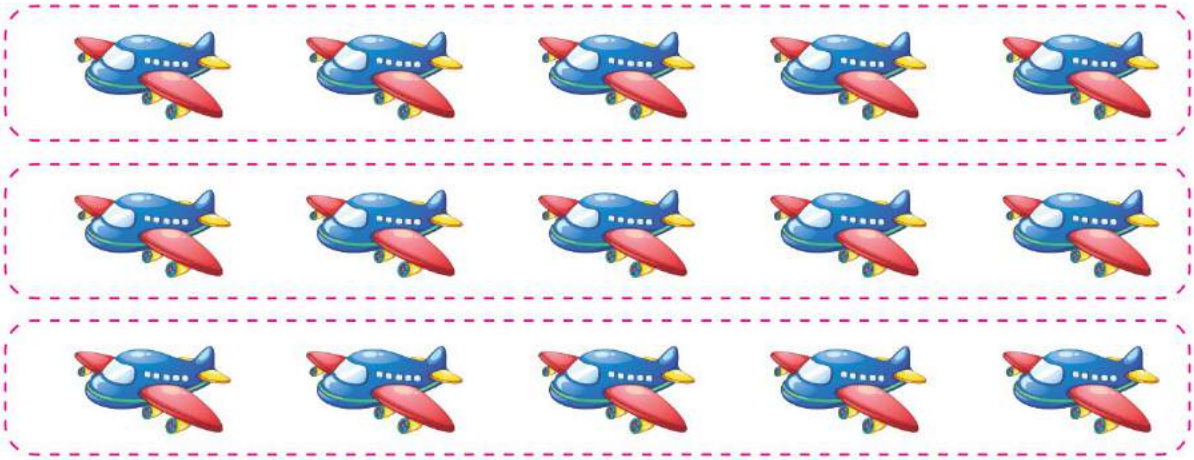
a. 50 ÷ 10 = 5 ⟷ 5 × 10 = 50

b. 70 ÷ 10 = 7 ⟷ 7 × 10 = 70

c. 90 ÷ 10 = 9 ⟷ 9 × 10 = 90

Exercise 6

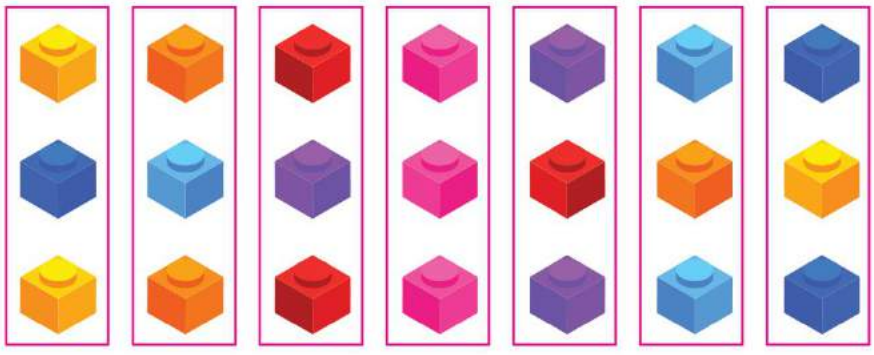
1. There are 15 planes. Divide them into 3 groups. How many planes are there in each group?



15 ÷ 3 = 5

There are 5 planes in each group.

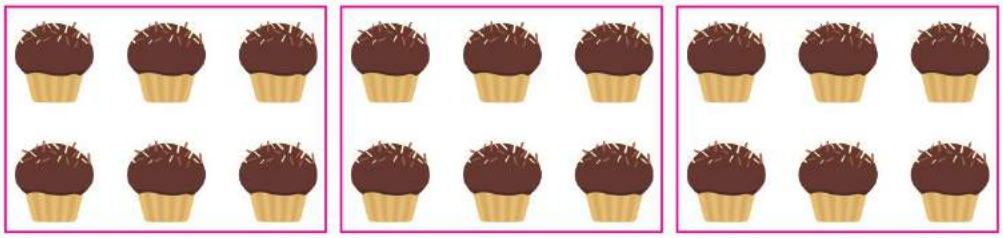
2. There are 21 blocks. Divide them into 3 groups. How many blocks are there in each group?



21 ÷ 3 = 7

There are 7 blocks in each group.

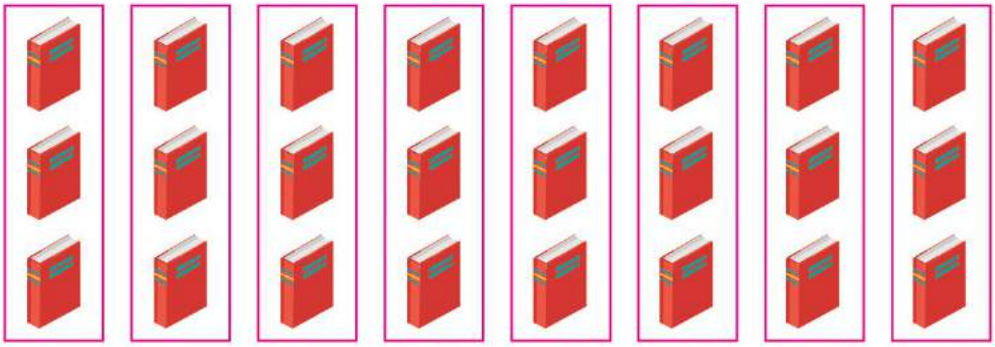
3. **Maha has 18 cupcakes. She puts the cupcakes in groups of 3. How many groups does she make?**



18 ÷ 3 = 6

She makes 6 groups of 3 cupcakes.

4. **Sami arranges 24 books equally in 3 shelves. How many books are there in each shelf?**



24 ÷ 3 = 8

Sami puts 8 books in each shelf.

5. **Fill in the blanks.**

a. 9 ÷ 3 = 3 ⟷ 3 × 3 = 9

b. 21 ÷ 3 = 7 ⟷ 7 × 3 = 21

c. 30 ÷ 3 = 10 ⟷ 10 × 3 = 30

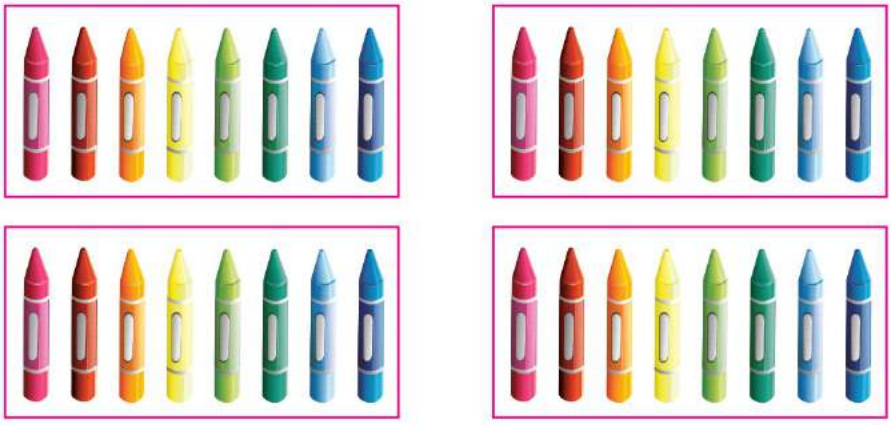
Exercise 7

1. There are 8 dolls. Divide them into 4 groups. How many dolls are there in each group?

8 ÷ 4 = 2

There are 2 dolls in each group.

2. Sami arranges 32 crayons equally in 4 boxes. How many crayons are there in each box?



32 ÷ 4 = 8

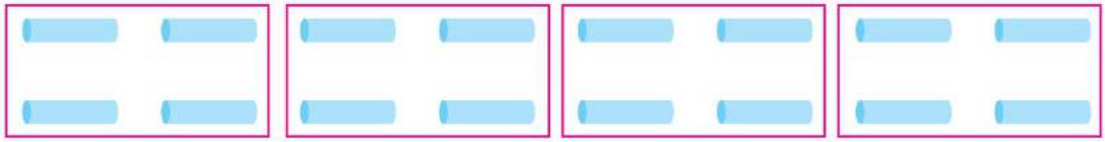
Sami puts 8 crayons in each box.

3. Nida makes 24 cupcakes. She puts the cupcakes in groups of 4. How many groups does she make?

24 ÷ 4 = 6

She makes 6 groups of 4 cupcakes.

4. There are 16 chalks. Divide them into 4 groups. How many chalks are there in each group?



16 ÷ 4 = 4

There are 4 chalks in each group.

5. Fill in the blanks.

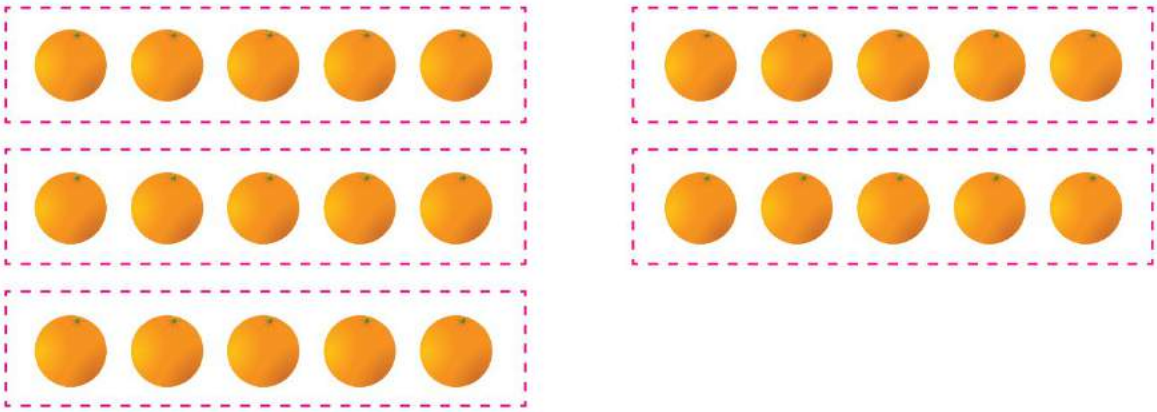
a. 12 ÷ 4 = 3 ⟷ 3 × 4 = 12

b. 28 ÷ 4 = 7 ⟷ 7 × 4 = 28

c. 16 ÷ 4 = 4 ⟷ 4 × 4 = 16

Exercise 8

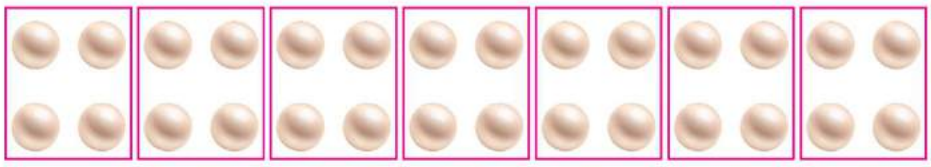
1. There are 25 oranges. Hina packs them equally in 5 baskets. How many oranges are there in each basket?



25 ÷ 5 = 5

There are 5 oranges in each basket.

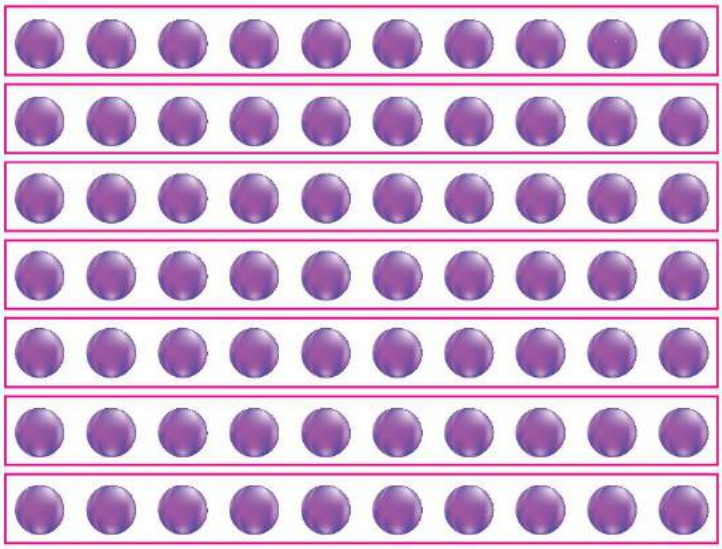
2. Maria has 28 pearls. She puts 4 pearls on one clip. How many clips does she make?



28 ÷ 4 = 7

She makes 7 clips.

3. **Asad has 70 marbles. He arranges them in groups of 10. How many groups does he make?**



70 ÷ 10 = 7

There are 7 marbles in each group.

4. **Taha puts 27 crayons equally in 3 boxes. How many crayons are there in each box?**

27 ÷ 3 = 9

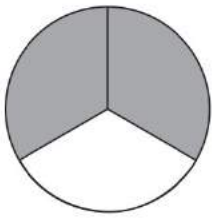
There are 9 crayons in each box.

Unit 6 Fraction

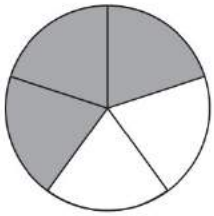
Exercise 1

1. What fraction of the shape is shaded?

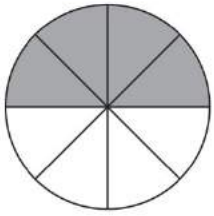
a) $\frac{2}{3}$ of the shape is shaded.



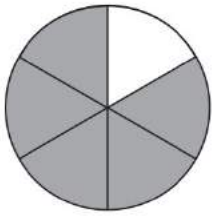
b) $\frac{3}{6}$ of the shape is shaded.



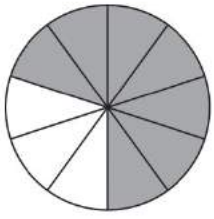
c) $\frac{4}{8}$ of the shape is shaded.



d) $\frac{5}{6}$ of the shape is shaded.

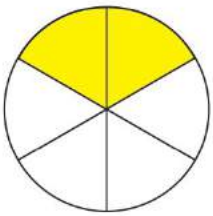


e) $\frac{7}{10}$ of the shape is shaded.

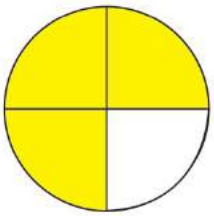


2. Read the fraction. Then shade the given shape.

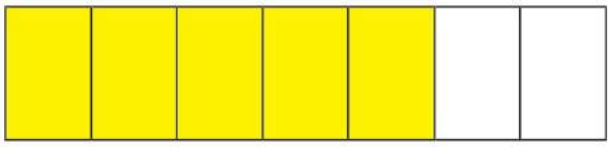
a) Shade $\frac{2}{6}$



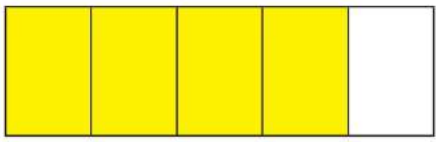
b) Shade $\frac{3}{4}$



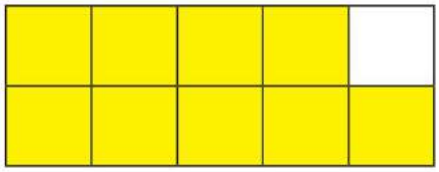
c) Shade $\frac{5}{7}$



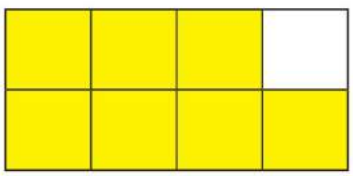
d) Shade $\frac{4}{5}$



e) Shade $\frac{9}{10}$



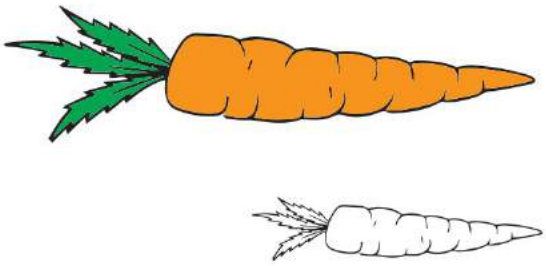
f) Shade $\frac{7}{8}$



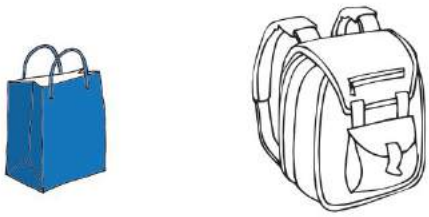
Unit 7 Length, Mass and Capacity

Recap

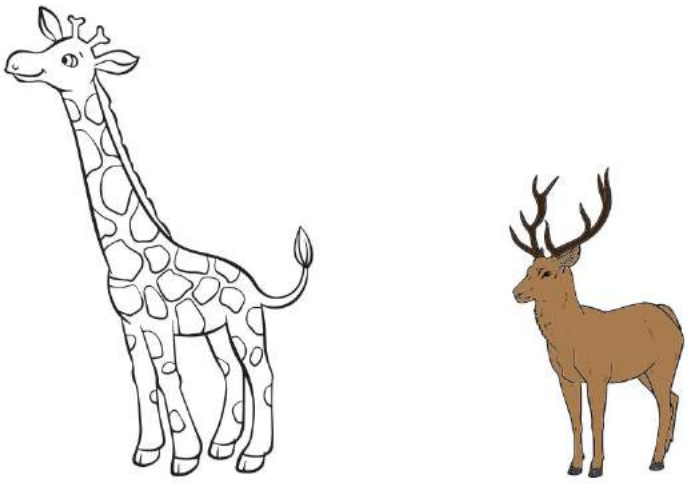
1. Colour the long object.



2. Colour the light object.



3. Colour the short object.



Exercise 1

1. Which objects can be measured in centemetres?

2. Measure the following line segment and write your measurement in cm.

1. _____

2. _____

3. _____

4. ____

5. _____

6. _____

Sharpener

Crayon

Book

Pencil box

Exercise 2

1. Add these sums.

a) 17 cm + 12 cm = 29 cm

b) 92 cm + 3 cm = 95 cm

c) 47 cm + 36 cm = 83 cm

d) 15 m + 27 m = 42 m

e) 35 m + 48 m = 83 m

f) 34 m + 15 m = 49 m

g) 24 m + 52 m = 76 m

h) 25 cm + 18 cm = 43 m

i) 43 m + 29 m = 72 m

2. Fill in the blanks

a) 4 m + 2 m + 3 m = 9 m

b) 3 cm + 5 cm + 7cm = 15 cm

c) 7 cm + 9 cm + 2 cm = 18 cm

d) 11 m + 20 m + 5 m = 36 cm

3. Sara has a rope that is 16 cm long. She joins it to another rope that measures 28 cm. How long is the rope now?

16cm + 28cm = 44cm

The rope is 44cm long.

	T	O
	1	6
+	2	8
	4	4

4. Ali cycles 26 m to the park. He then cycles 37 m to the market. How many metres does he cycle altogether?

26cm + 37cm = 63cm

Ali cycles 63cm altogether.

	T	O
	2	6
+	3	7
	6	3

Exercise 3

1. Subtract the following

a) 54 m − 24 m = 30 m

b) 42 cm − 31 cm = 11 cm

c) 73 m − 33 m = 40 m

d) 45 cm − 12 cm = 33 cm

e) 62 m − 22 m = 40 m

f) 65 m − 32 m = 33 m

g) 99 cm − 46 cm = 53 cm

h) 25 cm − 18 cm = 7 cm

i) 22 m − 9 m = 13 m

2. Fill in the blanks.

a) 37 m - 12 m = 25m

b) 42 m - 26 m = 16m

c) 70 m - 27 m = 43m

d) 89 m - 43 m = 46m

e) 61 m - 24 m = 37m

3. **Building A is 69 m high. Building B is 43 m high. How much higher is Building A than Building B?**

	T	O
	6	9
-	4	3
	2	6

Building A is 26 higher than building B.

4. The length of a ribbon is 60 cm. Maira cuts 34 cm of the ribbon. What length of ribbon is left?

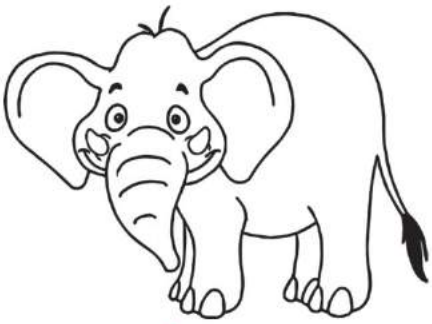
	T	O
	6	0
-	3	4
	2	6

26 of ribbon is left.

Exercise 4

1. Tick the correct word that best describes the weight of each object.

✓ Heavy Light



✓ Heavy Light

Heavy ✓ Light

Heavy ✓ Light

✓ Heavy Light

Heavy ✓ Light

Heavy ✓ Light

✓ Heavy Light

Heavy ✓ Light

Heavy ✓ Light

✓ Heavy Light

Heavy ✓ Light

2. What is the mass of each object?

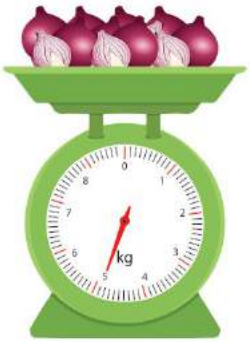
a)

820 g

b)

4 kg

c)



5 kg

d)

500 g

e)

640 g

f)

2 kg

Exercise 5

1. Add the following.

a) 12 kg + 15 kg = 27 kg

b) 24 kg + 30 kg = 54 kg

c) 125 g + 118 g = 243 g

d) 225 g + 100 g = 325 g

e) 34 kg + 24 kg = 58 kg

f) 125 g + 18 g = 143 g

g) 73 kg + 11 kg = 84 kg

h) 500 g + 321 g = 821 g

i) 52 kg + 18 kg = 70 kg

2. Alia had 15 kg of sugar. She bought 35 kg more. How much sugar does she have altogether?

15 kg + 35kg = 50 kg

She has 50 kg sugar altogether.

	T	O
	1	5
+	3	5
	5	0

3. The mass of a pencil is 115 g. The mass of a book is 385 g. What is the total mass of both objects?

115g + 385g = 500g

The total mass of both objects is 500g

	H	T	O
	1	1	5
+	3	8	5
	5	0	0

Exercise 6

1. Subtract the following:

a) 42 kg − 15 kg = 27 kg

b) 54 kg − 30 kg = 24 kg

c) 125 g − 108 g = 17 g

d) 92 kg − 10 kg = 82 kg

e) 300 g − 103 g = 197 kg

f) 25 kg − 18 kg = 7 kg

g) 325 g − 100 g = 225 g

h) 580 g − 407 g = 173 g

2. Sara's mass is 36 kg. Nida's mass is 28 kg. How much heavier is Sara than Nida?

36 − 28 = 8

Sara is 8 heavier than Nida.

	T	O
	3	6
−	2	8
	0	8

3. Maha has 850 grams of flour. She uses 576 g to bake muffins. How much flour is left?

850 − 576 = 274

Maha has 274 of flour left.

	H	T	O
	8	5	0
−	5	7	6
	2	7	4

Exercise 7

1. Look at these pictures and give your answers in litres or millilitres.

a) We buy cooking oil in **litres**

b) Shampoo bottles are marked in **millilitres**

c) The capacity of a car's boot is given in **litres**

d) An ice cream cup is sold in **millilitres**

e) A cup of coffee has a capacity in **millilitres**

f) Juices are mostly sold in **millilitres**

g) The ink in an pot is measured in **millilitres**

h) Milk is sold in **litres**

2. Encircle the correct capacities of the shown containers.

ℓ (mℓ)

ℓ (mℓ)

(ℓ) mℓ

ℓ (mℓ)

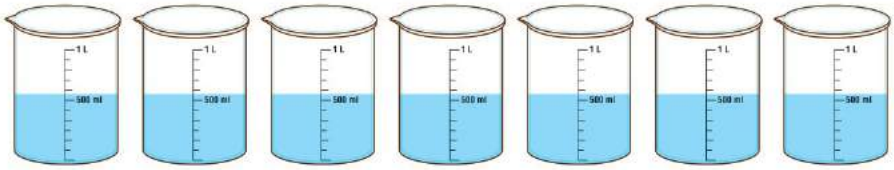
ℓ (mℓ)

(ℓ) mℓ

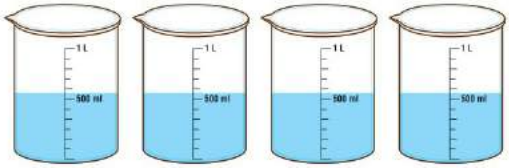
(ℓ) mℓ

3. Which bucket has a smaller capacity?

Bucket A



Bucket B



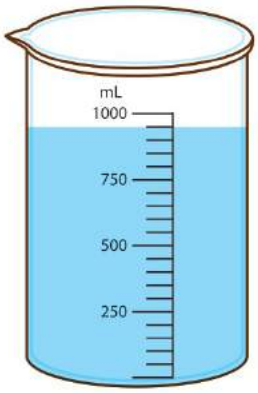
a The capacity of Bucket A is 7 ℓ

b The capacity of Bucket B is 4 ℓ

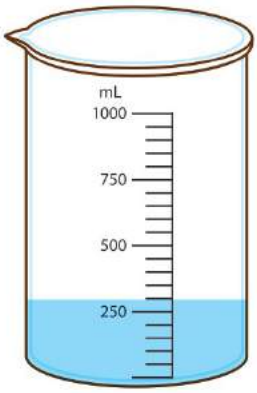
c The capacity of Bucket B is less than the capacity of Bucket A.

Bucket B has a smaller capacity.

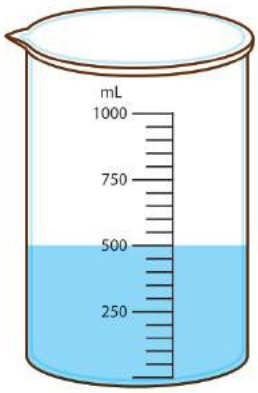
4. What is the volume of water in each container?

a) 

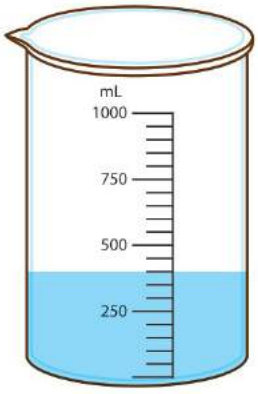
900 mℓ

b) 

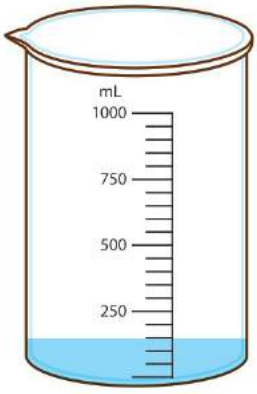
300 mℓ

c) 

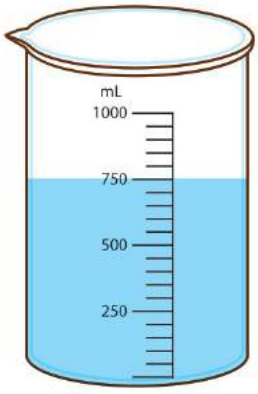
500 mℓ

d) 

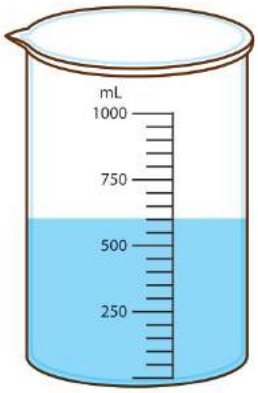
400 mℓ

e) 

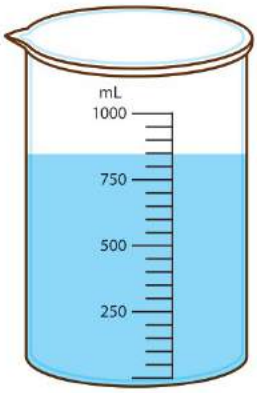
150 mℓ

f) 

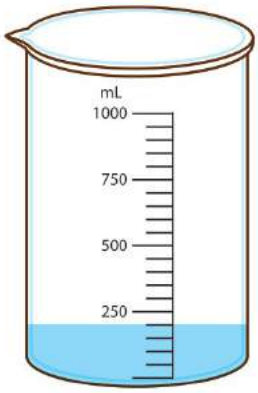
750 mℓ

g) 

600 mℓ

h) 

800 mℓ

i) 

200 mℓ

Exercise 8

1. To solve simple problems of units of volumes involving addition and Subtraction

a) 22 mℓ + 12 mℓ = 34 mℓ

b) 92 mℓ + 4 mℓ = 96 mℓ

c) 47 mℓ + 36 mℓ = 83 mℓ

d) 35 mℓ + 9 mℓ = 44 mℓ

e) 5 ℓ + 14 ℓ = 19 ℓ

f) 36 ℓ + 22 ℓ = 58 ℓ

g) 15 ℓ + 19 ℓ = 34 ℓ

h) 402 mℓ + 113 mℓ = 515 mℓ

2. A factory made 470 litres of oil last week. It made 316 litres of oil this week. How many litres of oil were made by the factory during the two weeks?

470 ℓ + 316 ℓ = 786 ℓ

	H	T	O
	4	7	0
+	3	1	6
	7	8	6

The factory made 786 of oil during the two weeks.

Exercise 9

1. Subtract these sums:

a) $39\ \ell - 15\ \ell = 24\ \ell$

b) $92\ \ell - 84\ \ell = 4\ \ell$

c) $46\ \ell - 12\ \ell = 34\ \ell$

d) $62\ m\ell - 42\ m\ell = 20\ \ell$

e) $92\ m\ell - 4\ m\ell = 88\ m\ell$

f) $87\ m\ell - 36\ m\ell = 51\ m\ell$

g) $309\ m\ell - 113\ m\ell = 196\ m\ell$

h) $60\ m\ell - 9\ m\ell = 51\ m\ell$

2. Ahmed filled 40 litres of petrol in his car. He used 18 litres of petrol during the week. How many litres of petrol are left in his car?

40 – 18 = 22

There is 22 of petrol left in his car.

	T	O
	4	0
–	1	8
	2	2

3. A bottle contains 750 mℓ of juice. Sara drinks 225 mℓ of the juice. How much juice is left in the bottle?

750 – 225 = 525

There is 525 of juice left in the bottle.

	H	T	O
	7	5	0
–	2	2	5
	5	2	5

Unit 8 Time

Recap

1. What time is it? Write it in the box.

a

5 o'clock

b

9 o'clock

c

6 o'clock

d

3 o'clock

e

8 o'clock

f

510 o'clock

Exercise 1

1. Are these times before or after midnight?

a)	2 a.m.	After midnight	b)	4 a.m.	After midnight
c)	9 p.m.	Before midnight	d)	8 p.m.	Before midnight
e)	7 p.m.	Before midnight	f)	9 a.m.	After midnight
g)	10 a.m.	After midnight	h)	3 p.m.	Before midnight
i)	6 p.m.	Before midnight	j)	1 a.m.	After midnight

2. Fill in the blanks with a.m. or p.m.

a) I go to school at 7:00 ___a.m.___ daily.

b) I ate my dinner at 9:00___p.m.___ yesterday.

c) I played with my friends at 6:00 ___p.m.___ in the garden.

d) Today I reached home after school at 3:00 ___p.m.___.

e) My mother cooks lunch at 12:00 ___a.m.___.

f) I have break time in school at 10:30 ___a.m.___.

Exercise 2

1. Match the time to the correct clock.

a) 8:10

b) 5:30

c) 7:25

d) 2:55

e) 12:40

2. Look at the clock. Write the correct time in the box.

a

01:20

b

01:20

c

07:15

d

09:30

e

08:05

f

11:50

3. What time is it? Draw the minute hand.

a) 12:10

b) 5:35

c) 6:50

d) 11:10

e) 4:25

f) 9:35

Unit 9 Shapes and Patterns

Recap

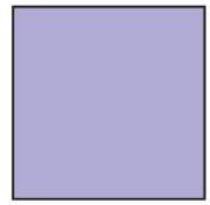
1. Match the shapes to their names.

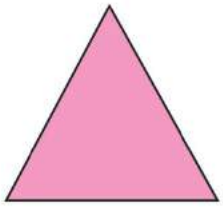
triangle

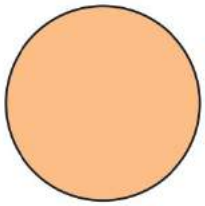
circle

square

rectangle

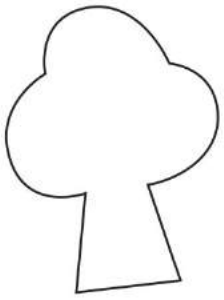






Exercise 1

1. How many straight line and curves are there in each of these figures?

a) 

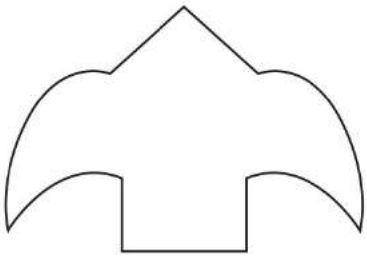
3 straight lines

3 curves

b) 

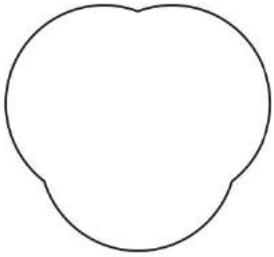
4 straight lines

2 curves

c) 

5 straight lines

4 curves

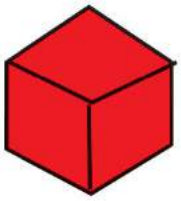
d) 

0 straight lines

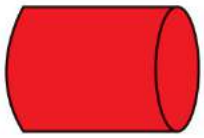
3 curves

Exercise 3

Colour the 2-D shapes blue and 3-D shapes red:


cube


ice


cylinder


soup Can


Sphere


basketball


cuboid


juice Box


Cone


Ice Cream


Square


Picture Frame


Circle


Clock


Rectangle


Paper