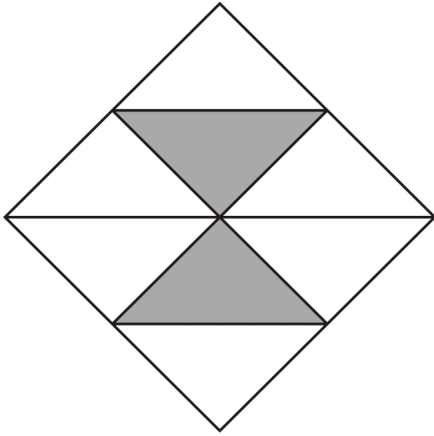
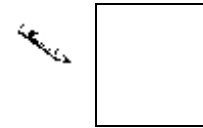


1

Here is a square.



What fraction of the square is shaded?



1 mark

2

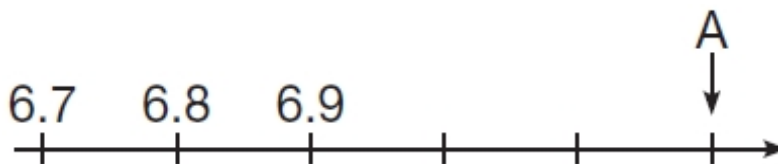
Write these numbers in order, starting with the smallest.

0.6	$\frac{3}{10}$	0.2	$\frac{9}{10}$

smallest

1 mark

3



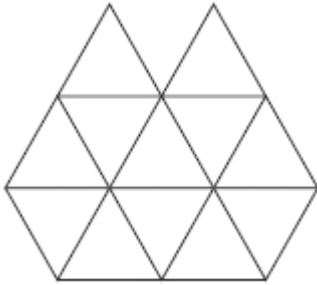
What number is marked at A?



1 mark

4

Shade $\frac{1}{4}$ of this shape.

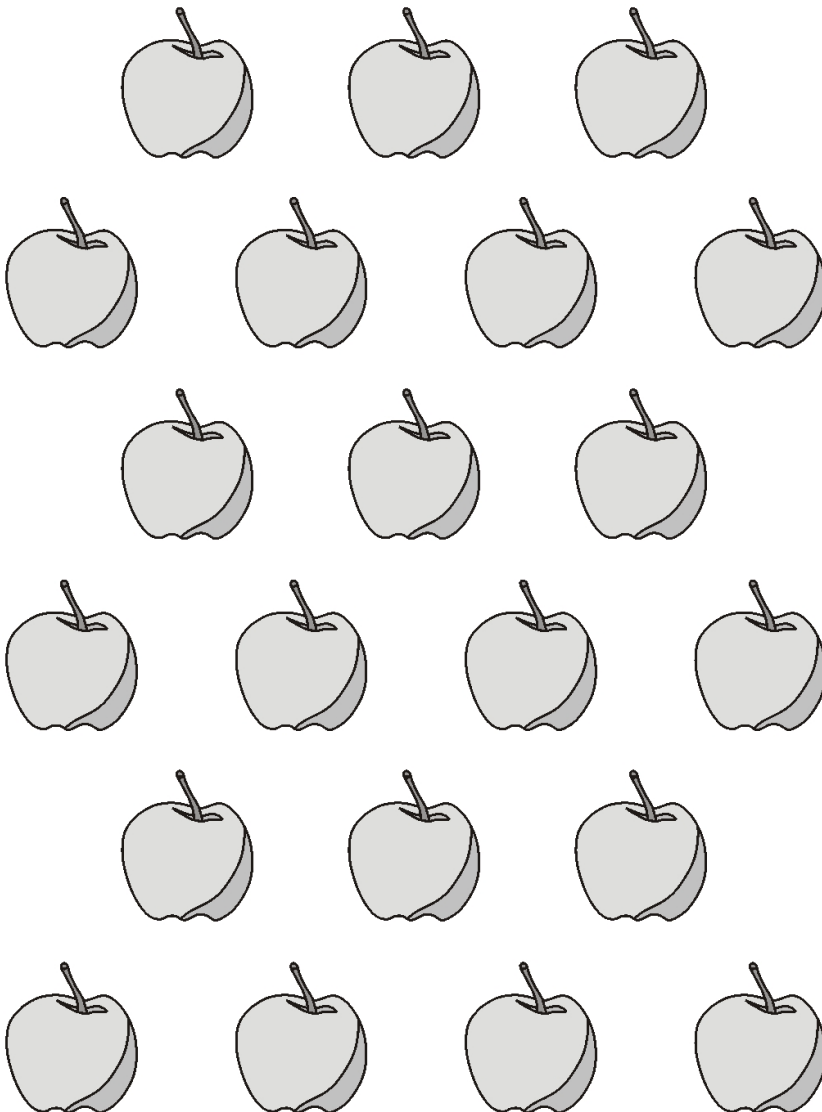


1 mark

5

Here are 21 apples.

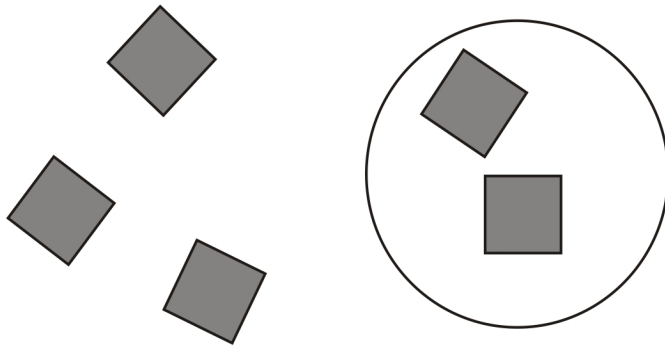
Put a ring around **one third** of them.



1 mark

6

What fraction of these tiles are circled?



1 mark

7

$\frac{1}{5}$ of 20 =



1 mark

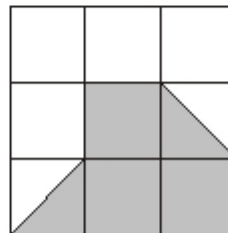
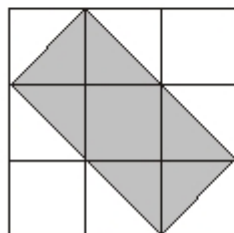
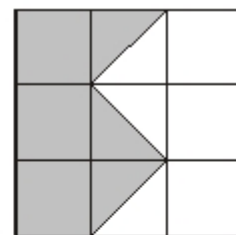
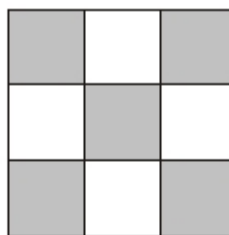
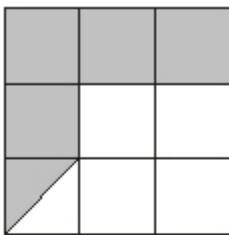
8

Here are five diagrams.

Look at each one.

Put a tick (✓) on the diagram if exactly $\frac{1}{2}$ of it is shaded.

Put a cross (✗) if it is not.



2 marks

9

Draw an arrow (\downarrow) on the number line to show $1\frac{3}{4}$



1 mark

10

$$\frac{2}{7} + \frac{3}{7} =$$

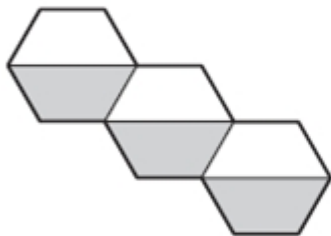
1 mark

11

Here are three shapes made from regular hexagons.

Write the **fraction** of each shape that is shaded.







2 marks

12

Circle the **two** fractions that have the same value.

$$\frac{2}{10} \quad \frac{1}{3} \quad \frac{1}{2}$$

$$\frac{5}{10} \quad \frac{1}{4}$$

1 mark

13

Write these numbers in order, starting with the smallest.

$$\frac{5}{7} \quad \frac{2}{7} \quad \frac{6}{7} \quad \frac{3}{7}$$

smallest

1 mark

14

$\frac{3}{8}$ of a class are boys.

What **fraction** of the class are girls?

1 mark

15

Sarah has a packet of balloons.



The contents of the packet are

5 red balloons
5 blue balloons
10 yellow balloons

Sarah says,

'One-quarter of the balloons are red'.

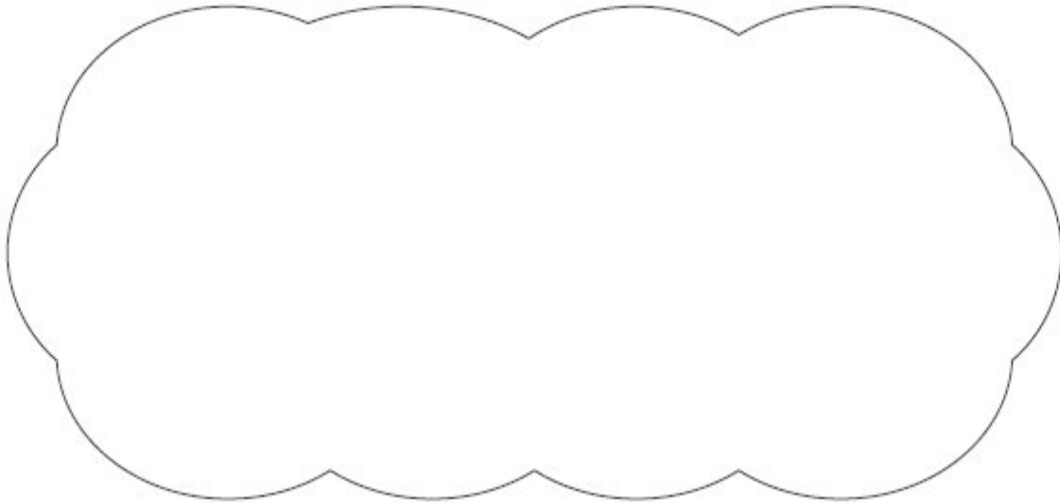
Is Sarah correct?
Circle **Yes** or **No**.

 Yes / No

Explain how you know.



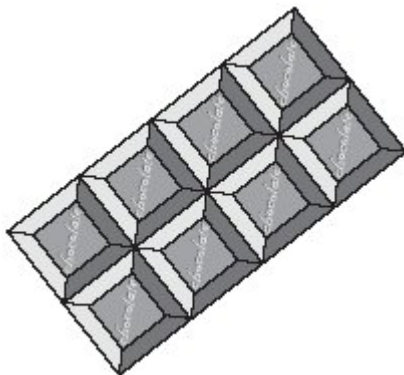




1 mark

16

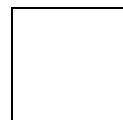
Here is a chocolate bar.



William eats 3 pieces and Amber eats 2 pieces.

What **fraction** of the chocolate bar **remains**?





1 mark

Mark schemes

1

$$\frac{1}{4} \text{ OR } \frac{2}{8}$$

Accept equivalent fractions.

[1]

2

$$[10.2] \left[\frac{3}{10}\right] [0.6] \left[\frac{9}{10}\right]$$

*Accept equivalent fraction or decimals,
e.g. 0.2, 0.3, 0.6, 0.9*

[1]

3

7.2

[1]

4

Diagram completed to show three triangles shaded, or equivalent, eg



Accept inaccurate shading provided the intention is clear.

[1]

5

Ring drawn enclosing 7 apples.

Accept any other clear way of indicating 7 apples.

[1]

6

$$\frac{2}{5}$$

[1]

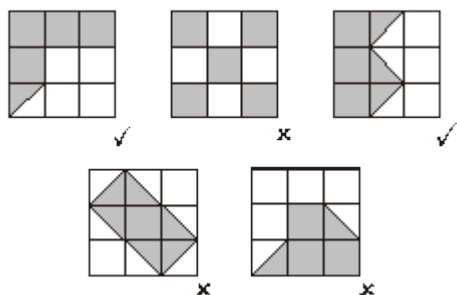
7

4

[1]

8

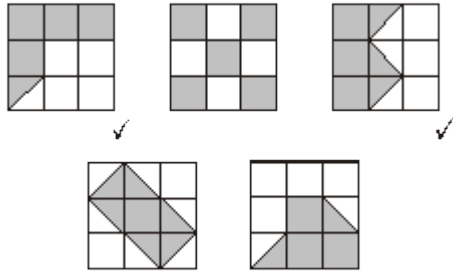
Award **TWO** marks for diagrams ticked or crossed as shown:



If the answer is incorrect, award **ONE** mark for four diagrams ticked or crossed correctly.

Accept alternative unambiguous indications such as **Y** or **N**.

For **TWO** marks accept:

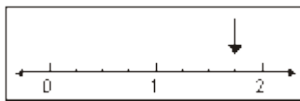


Up to 2

[2]

9

An arrow drawn on the number line as shown:



Accept any other clear way of indicating $1\frac{3}{4}$ on the number line as long as the intention is clear.

Accept slight inaccuracies, provided the intention is clear.

[1]

10

$\frac{5}{7}$

[1]

11

Award **TWO** marks for three fractions correct as shown:

$$\frac{1}{4}$$

AND

$$\frac{1}{2}$$

AND

$$\frac{1}{3}$$

If the answer is incorrect, award **ONE** mark for two fractions correct.

Accept equivalent fractions, eg

$$\frac{3}{6} \text{ for } \frac{1}{2}$$

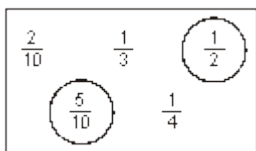
$$\frac{2}{6} \text{ for } \frac{1}{3}$$

Up to 2

[2]

12

Circles two fractions as shown:



Both fractions must be correct for the award of the mark.

Accept any other clear way of indicating the correct fractions, such as ticking or underlining.

[1]

13

$$\frac{2}{7} \quad \frac{3}{7} \quad \frac{5}{7} \quad \frac{6}{7}$$

[1]

14

$$\frac{5}{8}$$

[1]

15

An explanation which recognises that 5 is a quarter of 20, the total number of balloons, eg:

- ‘ $\frac{1}{4}$ are red, $\frac{1}{4}$ are blue and half are yellow’
- ‘A quarter of 20 is 5’
- ‘5 out of 20’
- ‘There are 20 balloons altogether and 5 are red so she is correct’.

No mark is awarded for circling ‘Yes’ alone.

Do not accept vague or incomplete explanations, eg:

- ‘5 are red, 5 are blue and 10 are yellow so that is a quarter’
- ‘There are 20 altogether’
- ‘Add all the balloons up and divide by 4’

If ‘No’ is circled but a correct, unambiguous explanation is given, then award the mark.

U1

[1]

16

$$\frac{3}{8}$$

Accept equivalent fractions or decimals, eg 0.375

[1]