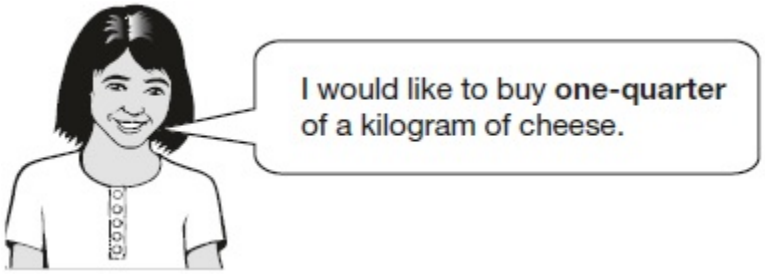
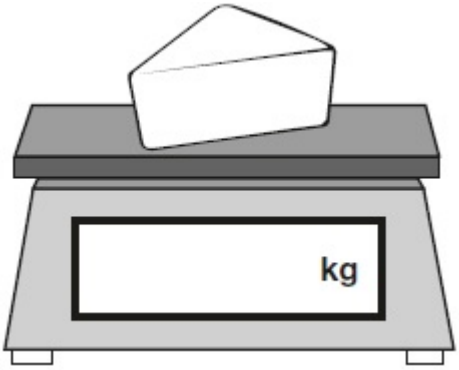
**1.** Amina is shopping.

She says,




Write one-quarter on the scales as a decimal.




1 mark

The cheese costs £1.35

Amina pays with a £2 coin.

How much change should Amina get?

1 mark

**2.** Put a tick (✓) in **each row** to complete this table.

One has been done for you.

| | greater than $\frac{1}{2}$ | less than $\frac{1}{2}$ |
|---|---|---|
| **0.9** | ✓ | |
| **0.06** | | |
| $\frac{11}{20}$ | | |
| **0.21** | | |

2 marks

**3.** Write a **fraction** which is **greater than 0.7** and **less than 0.71**

1 mark

Write a **decimal** which is **greater than** $\frac{4}{7}$ and **less than** $\frac{5}{7}$.

1 mark

**4.** In a race, Ali completes a swim, a run and a bicycle ride.

The swim is $\frac{1}{10}$ of the total distance.

The run is $\frac{3}{10}$ of the total distance.

What fraction of the total distance is the **bicycle ride**?

1 mark

**5.** Circle the improper fraction that is equivalent to $2\frac{3}{8}$

$\frac{5}{8}$ $\frac{14}{8}$ $\frac{19}{8}$ $\frac{23}{8}$ $\frac{26}{8}$

1 mark

**6.** Amina asked 60 children to choose their favourite flavour of jelly.

These were her results.

| **Flavour** | **Number of children** |
|---|---|
| Raspberry | 12 |
| Lemon | 8 |
| Orange | 15 |
| Blackcurrant | 25 |
| **Total** | **60** |

What **percentage** of the 60 children chose orange?

%

1 mark

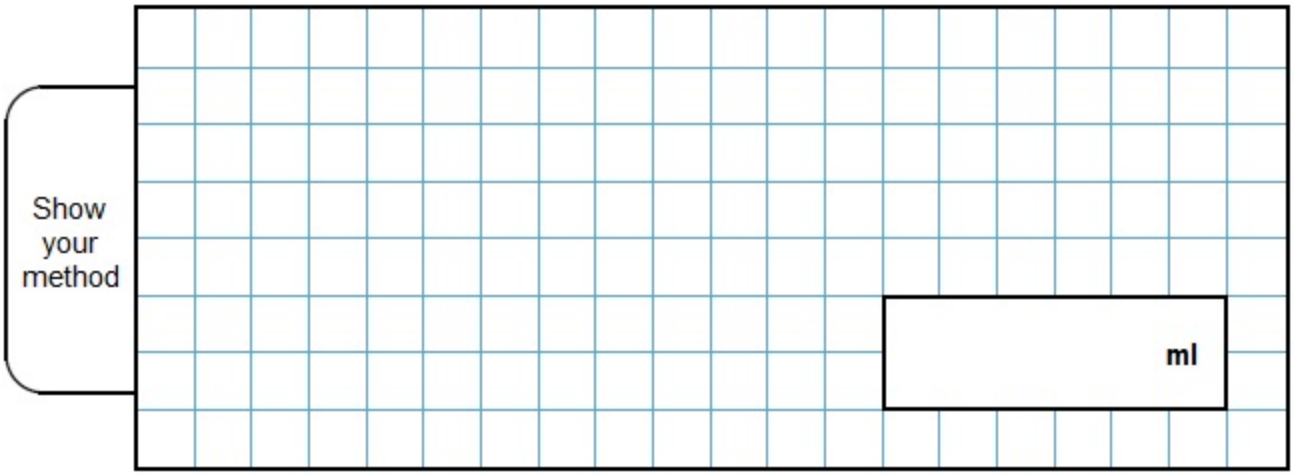
**7.** You can make green paint by mixing:

- 250 ml of blue paint
- 1,150 ml of yellow paint.

Stefan wants to make some of this green paint.

He uses 750 ml of **blue** paint.

How much **green** paint does he make?

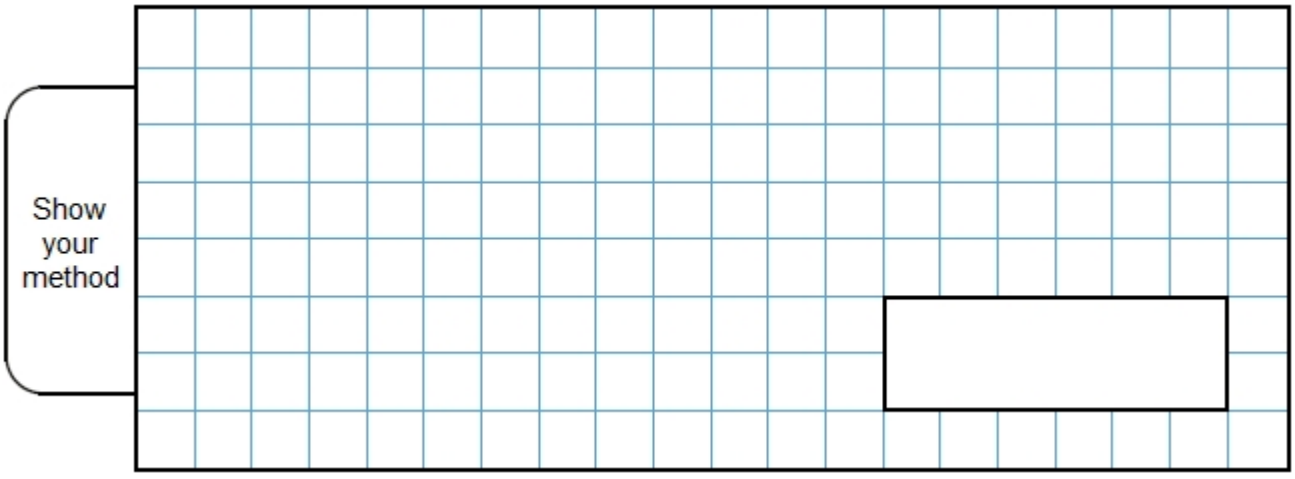



2 marks

**8.** In a class, 18 of the children are girls.

A quarter of the children in the class are boys.

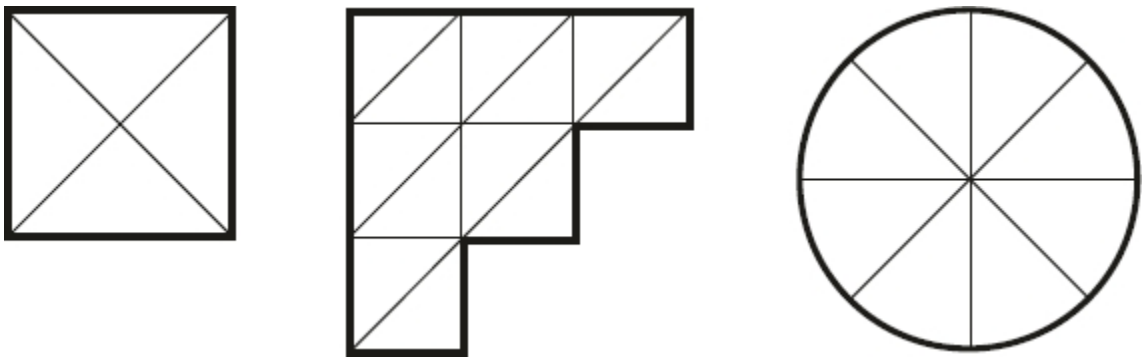
Altogether, how many children are there in the class?




2 marks

**9.** Each diagram below is divided into equal sections.

Shade three-quarters of each diagram.



2 marks

**10.** Write these numbers in order of size, starting with the **smallest.**

1.9 0.96 1.253 0.328

**smallest**

1 mark

**11.**

On Saturday Lara read $\frac{2}{5}$ of her book.

On Sunday she read the **other** 90 pages to finish the book.

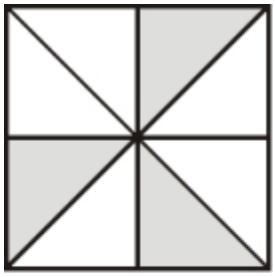
How many pages are there in Lara's book?

Show your method

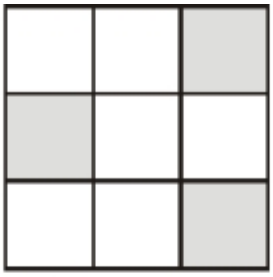
2 marks

**12.** Each of these diagrams is divided into equal parts.

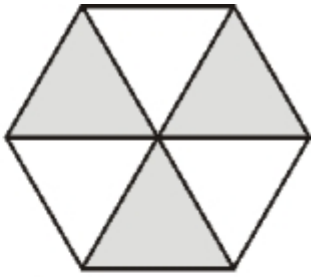
Some of the parts are shaded.



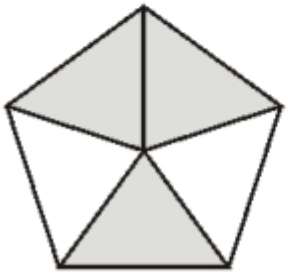
A



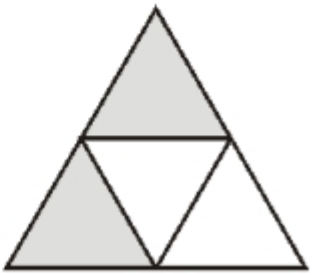
B



C



D



E

Write the letters of all the diagrams that have exactly $\frac{1}{2}$ shaded.

_____

1 mark

Which of the diagrams has exactly $\frac{1}{3}$ shaded?

1 mark

## Mark schemes

**1.**

(a) 0.25

***Do not*** *accept* $\frac{1}{4}$ *or any other fraction*

*Refer to section 2.3 on page 10 for additional guidance on marking answers involving measures (see Resource).*

**1**

(b) 65(p) **OR** (£)0.65

*Refer to section 2.1 on pages 8 and 9 for additional guidance on marking answers involving money (see Resource).*

**1**

**[2]**

**2.**

Award **TWO** marks for the table correctly completed as shown:

| | |
|---|---|
| ✓ | |
| | ✓ |
| ✓ | |
| | ✓ |

If the table is not correctly completed award **ONE** mark for any two out of three ticks correct.

***Do not*** *accept any row that has both columns ticked.*

*Accept unambiguous alternatives to ticks, eg 'yes'.*

**Up to 2**

**[2]**

**3.**

(a) Any fraction greater than 7/10 AND less than 71/100, eg:

- 141/200

*Accept decimal fractions which fit the criteria, eg:*

- ***0.705***

**1**

(b) Any decimal greater than 0.571428 recurring
AND less than 0.714285 recurring, eg:

- 0.6

***Do NOT*** *accept non-decimal fractions, eg:*

- $^{9}/_{14}$ *OR* $^{4.5}/_{7}$

**1**

**[2]**

**4.** $\frac{6}{10}$

*Accept equivalent fractions and decimals, e.g.* $\frac{3}{5}$ *and 0.6*

*Do **not** accept 60%*

**[1]**

**5.** Correct response circled, as shown:

$\frac{5}{8}$ $\frac{14}{8}$ (circled) $\frac{19}{8}$ $\frac{23}{8}$ $\frac{26}{8}$

*Accept alternative unambiguous positive indication of the correct answer.*

**[1]**

**6.** 25

**[1]**

**7.** Award **TWO** marks for the correct answer of 4,200

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- 750 ÷ 250 = 3
  1,150 + 250 = 1,400
  1,400 × 3

**OR**

- 750 ÷ 250 = 3
  1,150 × 3 = 3,350 *(error)*
  3,350 + 750

Award **ONE** mark for sight of 3450, 3.45 **OR** 3.450 (as evidence of correctly calculating how much yellow paint is required).

*Answer need not be obtained for the award of **ONE** mark.*

**Up to 2m**

**[2]**

**8.** Award **TWO** marks for the correct answer of 24

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- 18 ÷ 3 × 4 = wrong answer

**OR**

- 18 ÷ 3 = 6

  6 + 18 = wrong answer

  *Working must be carried through to reach an answer for the award of **ONE** mark.*

**OR**

- a 'trial and improvement' method, eg

  18 girls + 14 boys = 32  32 ÷ 4 = 8

  18 girls + 10 boys = 28  28 ÷ 4 = 7

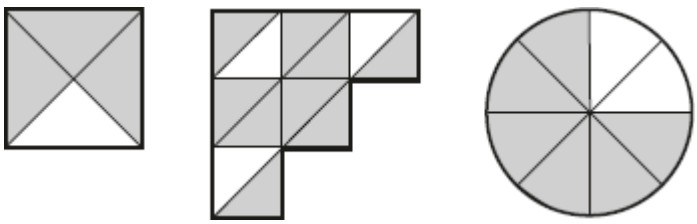
  18 girls + 4 boys = 22  22 ÷ 4 =

  *A 'trial and improvement' method must show evidence of improvement, but a final answer need not be reached for the award of **ONE** mark.*

**Up to 2**
**U1**

**[2]**

**9.** Award **TWO** marks for all three diagrams completed to show three-quarters shaded, e.g.



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

*Accept alternative unambiguous indications of parts shaded.*

**Up to 2m**

**[2]**

**10.** Numbers in order as shown:

| 0.328 | 0.96 | 1.253 | 1.9 |
|---|---|---|---|

**[1]**

**11.** Award **TWO** marks for the correct answer of 150 pages.

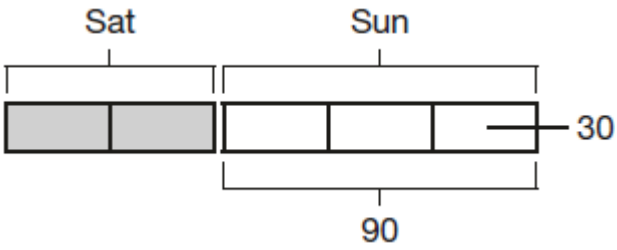
If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $\frac{3}{5}$ = 90

  9 ÷ 3 = 30

  30 × 5

**OR**

- 


  30 × 5

*Answer need not be obtained for the award of **ONE** mark.*

**Up to 2**

**[2]**

**12.** (a) C **AND** E

*Letters may be given in either order.*

**1**

(b) B

**1**

**[2]**