

Mark schemes

1

- (a) $\frac{3}{8}$ written in the first box

1

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 0.375*

- (b) $2\frac{7}{8}$ **OR** $\frac{23}{8}$ written in the last box

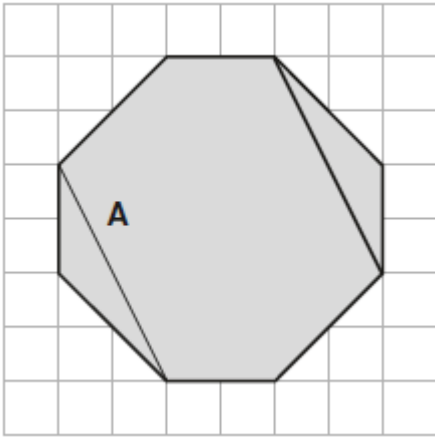
1

*Accept equivalent fractions or an **exact** decimal equivalent, e.g. 2.875*

[2]

2

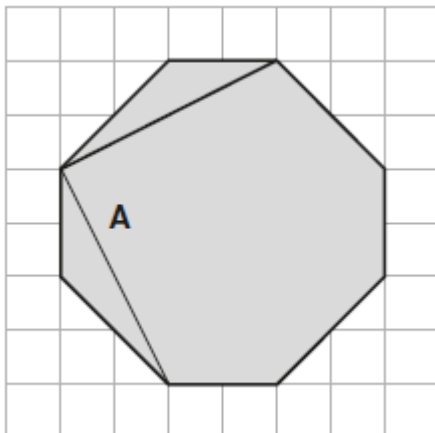
- (a) Line drawn parallel to A, as shown:



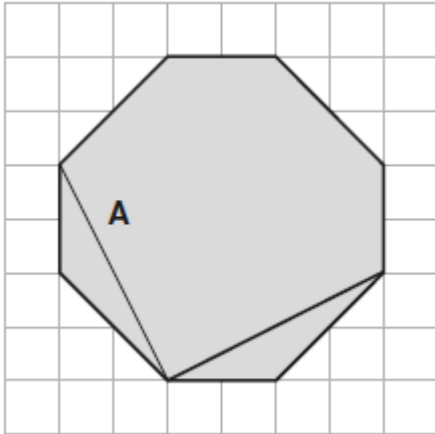
Accept slight inaccuracies in drawing, provided the intention is clear.

1

- (b) Line drawn perpendicular to A, as shown:



OR



Accept slight inaccuracies in drawing, provided the intention is clear.

1

[2]

3

709

[1]

4

Award **TWO** marks for numbers completed, as shown:

$$354 \times 9.5 = \boxed{3,363}$$

$$3,540 \times 95 = \boxed{336,300}$$

$$3,363 \div 95 = \boxed{35.4}$$

Award **ONE** mark for any two numbers completed correctly.

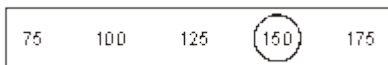
Do not accept transcription errors or misreads for this question.

Up to 2m

[2]

5

Number circled as shown:



Accept any other clear way of indicating the correct estimate, such as ticking the number.

[1]

6 (a) 56

1

(b) 34

*If the answers to (a) and (b) are incorrect, award **ONE** mark if their (a) plus their (b) = 90°, provided that (b) is **not** 45°, 30° or 60°.*

1

[2]

7 (a) -10

Do not accept 10-

1

(b) 45

1

[2]

8 (a) 11 written in the first box, as shown:

11	25	53	
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1

(b) 109 written in the last box, as shown:

	25	53	109
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1

[2]

9 24

[1]

10 (-10, -40)

[1]

11 Award **ONE** mark for three correct answers, as shown:

4	×	8	=	32
×		×		
3	×	7	=	21
=		=		
12		56		

[1]

12

18

*Accept –18***[1]****13**Award **TWO** marks for the correct answer of 1800If the answer is incorrect, award **ONE** mark for evidence of appropriate complete method with no more than one arithmetic error, e.g.

- $40 \times 15 = 500$ (*error*)
 $500 \times 3 = 1500$

Do not accept sight of a correct multiplication, e.g. $40 \times 15 \times 3$, for **ONE** mark unless part of the calculation is evaluated correctly.

Misreads are **not** allowed.

If no answer is given, the first part of the calculation must be evaluated correctly for the award of **ONE** mark, e.g.

- $15 \times 3 = 45$
 $45 \times 40 =$

OR

- $40 \times 15 = 600$
 $600 \times 3 =$

OR

- $40 \times 3 = 120$
 $120 \times 15 =$

Up to 2m

[2]**14**Award **TWO** marks for the correct answer of 3.75If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $60 \div 4 = 15$
- $250 \times 15 = 3750$
- $3750 \text{ ml} \div 1000 =$

OR

- $250 \div 4 = 62.5 \text{ ml per second}$
- $62.5 \times 60 = 3750$
- $3750 \text{ ml} \div 1000 =$

OR

- $60 \div 4 = 15$, so there are 15 lots of 4 seconds in 1 minute so there are 15 bottles per minute.
- There are 4 bottles in 1 litre
- $15 \div 4 =$

Accept for **TWO** marks, 3,750 ml for final answer in working and the answer box blank **OR** 3,750 in the answer box where the litres has been replaced with millilitres.

Accept for **ONE** mark 3,750 litres (l) in the answer box **OR** the final answer in working and answer box blank.

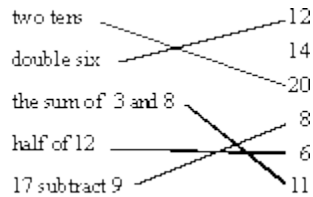
Answer need not be obtained for the award of **ONE** mark.

Up to 2m

[2]

15

Draw **all** the missing lines.



All correct for 1 mark.

[1]

16

Award **TWO** marks for:

$$\begin{array}{r} 15\boxed{1} \\ + 4\boxed{6}4 \\ \hline \boxed{6}15 \end{array}$$

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

Up to 2m

[2]

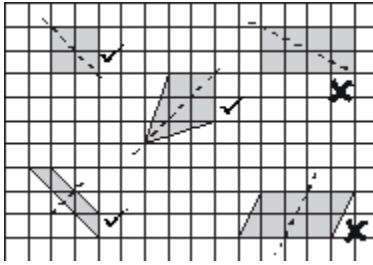
17

(50, 15)

[1]

18

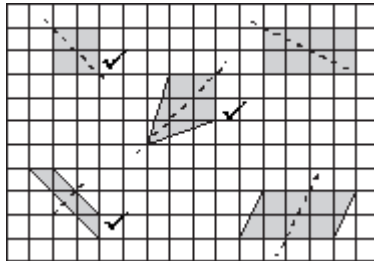
Award **TWO** marks for shapes ticked and crossed as shown:



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

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

*For **TWO** marks accept:*



Up to 2

[2]

19

(a) 12.5 **OR** 12½

1

(b) Award **TWO** marks for the correct answer in the range of 66 to 66.1 inclusive **OR** an answer based upon values obtained in **13a**.

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

- $(3.14 \times 5 \times 5) - 12.5$

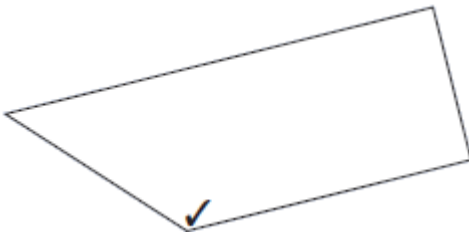
The calculation need not be completed for the award of the mark.

Up to 2

[3]

20

Correct angle indicated as shown:

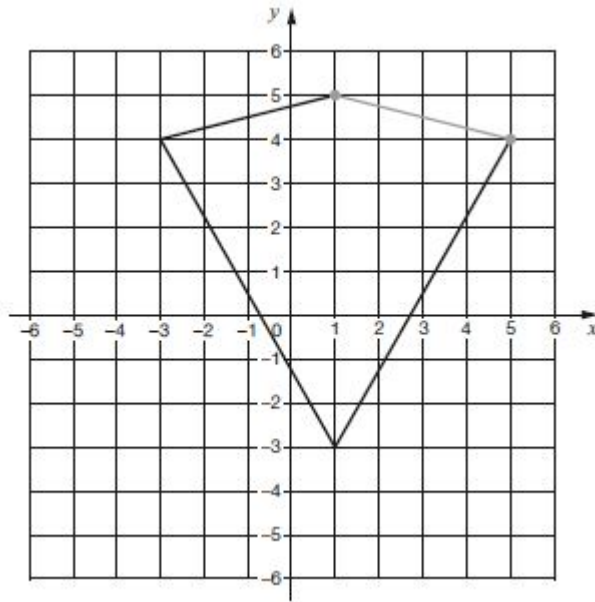


Accept alternative unambiguous indications, eg correct angle crossed or circled.

[1]

21

Quadrilateral completed as shown:



Accept slight inaccuracies in drawing

[1]

22

An explanation which compares prices and which recognises that the 'half price' cost is less than the '3 for 2' cost, eg

- 'The half price offer costs 40p, the other offer costs 60p so the half price one is 20p cheaper';
- 'I know because 40p is less than 60p';
- 'The half price offer costs 20p less'.

(Although the child has not stated the cost of each offer, we can assume that the child must have calculated them to reach this conclusion.)

Do not award the mark for ticking the 'Half price' box alone.

Do not accept an explanation which compares pencils rather than prices, eg

- 'I think because there are more pencils in the half price than the 3 for 2';
- 'Because you only get 2 in a packet and so the half price one is better'.

Also accept:

- Half price 40p ✓ 3 for 2 60p

The prices must be stated **AND** the 'half price' offer indicated.
(Although this is not the preferred form of response, the child has clearly communicated their understanding.)

Do not accept an explanation which compares prices incorrectly, eg

- 'Because the half price ones are 40p and the 3 for 2 ones are 90p'

(This shows that the child has not understood the concept of 3 for 2).

Do not accept an explanation which is vague or arbitrary, eg

- 'One pack of pencils costs less'.

Award the mark if the '3 for 2' box is ticked **OR** neither box is ticked provided a correct unambiguous explanation is given.

U1

[1]

23

Numbers in order as shown:



[1]

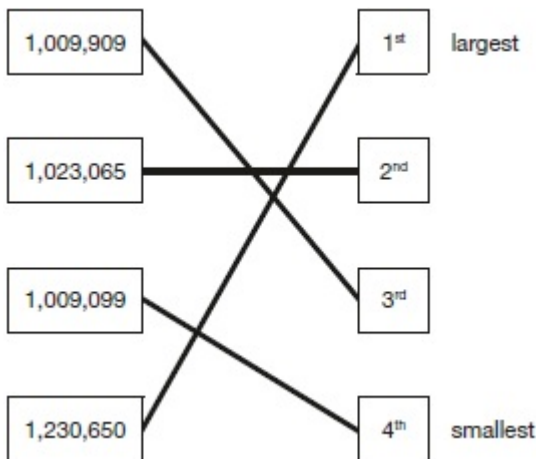
24

20

[1]

25

Award **ONE** mark for the four numbers matched correctly, as shown:



Lines need not touch the numbers and ordinals, provided the intention is clear

Do not accept any number which has been matched to more than **ONE** ordinal.

[1]

26 8,072 [1]

27 Award **TWO** marks for the correct answer of 14

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

$$17.5 \times 4 = 70$$

$$70 \div 5$$

*Accept for **ONE** mark 140 **OR** 1.4 as evidence of appropriate method.*

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

Up to 2 (U1)

[2]

28 Masses in correct order, as shown:

0.009 kg	0.99 kg	1.025 kg	1.25 kg
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lightest

*All masses must be in the correct order for the award of **ONE** mark.*

*Accept for **ONE** mark the masses written in reverse order **AND** the label **lightest** has been changed to follow suit.*

*Misreads and transcription errors are **not** allowed.*

[1]

29 £7,899 [1]

30 32 [1]

31 (75, 36)
Accept unambiguous answers written on the diagram. [1]

32 Award **TWO** marks for all four boxes ticked or crossed correctly as shown:

✓
✗
✗
✓

[1]

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

*Accept alternative unambiguous indications eg **Y** or **N**.*

*For **TWO** marks accept:*

✓
✓

Up to 2m

[2]

33

Award **TWO** marks for both digits correct, as shown:

$$\begin{array}{r} \\ \\ \times \\ \hline 2 \ 4 \ 6 \\ 8 \ 2 \ 0 \\ \hline 1 \ 0 \ 6 \ 6 \end{array}$$

If the answer is incorrect, award **ONE** mark for one digit correct.

Up to 2

[2]

34

2 AND 4

Accept alternative unambiguous indications, eg right angles marked on diagrams.

[1]

35

257

[1]