

Mark scheme

Q1.

Both symbols correct, as shown:

$$\frac{7}{10} \quad \boxed{>} \quad 0.07$$

$$\frac{23}{1000} \quad \boxed{<} \quad 0.23$$

[1]

Q2.

Both boxes ticked, as shown:

Tick **two**.

0.25	<input checked="" type="checkbox"/>
0.75	<input type="checkbox"/>
$\frac{25}{100}$	<input checked="" type="checkbox"/>
0.5	<input type="checkbox"/>
$\frac{2}{5}$	<input type="checkbox"/>

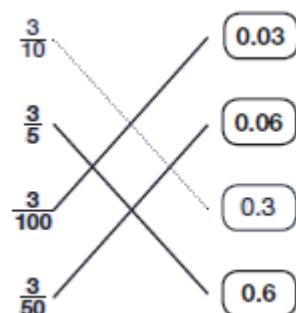
*As pupils are told to select **two** boxes, alternative unambiguous positive indications, e.g. Y, of the correct answer are accepted.*

Both correct boxes must be ticked for the award of the mark. No additional boxes must be ticked.

[1]

Q3.

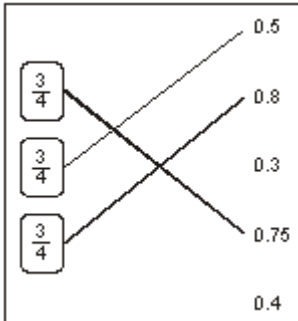
Fractions connected correctly to decimals as shown:



[1]

Q4.

Diagram completed correctly as shown:



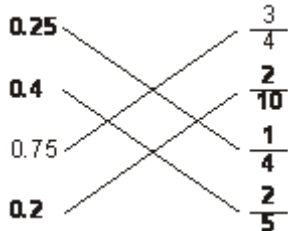
Both lines must be drawn correctly for the award of the mark.

Lines need not touch boxes or numbers exactly, provided the intention is clear.

[1]

Q5.

All numbers matched correctly as shown:



Do not award the mark if additional incorrect lines are drawn.

Lines need not touch the numbers provided the intention is clear.

[1]

Q6.

Award **TWO** marks for the table completed as shown.

fraction	decimal
$\frac{67}{100}$	0.67
$\frac{3}{10}$	0.3

$\frac{7}{10}$	0.7
$\frac{9}{100}$	0.09
$\frac{93}{100}$	0.93

Award **ONE** mark for any three numbers correct.

[2]

Q7.

(a) 4

Do not accept four OR 400

1

(b) 6

Do not accept six OR $\frac{6}{100}$

1

Commentary: This question assesses place value in whole numbers up to 1,000,000 (5N3a) and in decimals (5F6b).

[2]

Q8.

0.13 and 0.130 only

[1]

Q9.

19.42

[1]

Q10.

Award **TWO** marks for all values correct as shown:

Number	Rounded to the nearest whole number
5.05	5
5.55	6
4.45	4
4.54	5

If the answer is incorrect, award **ONE** mark for

three numbers correctly rounded.

Up to 2

[2]

Q11.

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

number	To nearest one decimal place
12.72	12.7
10.16	10.2
672.09	672.1
24.81	24.8

Award **ONE** mark for any two numbers correct.

[2]

Q12.

5.9 m

[1]

Q13.

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]

Q14.

(a) 0.7

Accept equivalent fractions.

1

(b) Answer in the range 0.3 to 0.35 exclusive

Accept fractions, eg $\frac{1}{3}$

***Do not** accept 0.3 **OR** 0.35*

1

*If the answer to (a) is in the range 0.3 to 0.35 exclusive **AND** the answer to (b) is 0.7, then award **ONE** mark for (b).*

[2]

Q15.

Two numbers circled as shown:

0.5 **0.8** 0.23 0.09 **0.67**

***Do not** award the mark if additional incorrect numbers are circled.*

Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.

[1]

Q16.

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

10.8 AND 17.3

If the answer is incorrect, award **ONE** mark for

either

1 m 0.8 in the first box

or

a number in the second box, which is 6.5 greater than the answer given in the first box.

Numbers must be in the correct order.

Up to 2

[2]

Q17.

All four numbers correctly placed as shown:

3.3	largest
3.23	
3.2	
3.03	
3	smallest

All four numbers must be placed correctly for the award of the mark.

Transcription errors are acceptable only if they do not result in a wrongly ordered list.

[1]

Q18.

0.1 0.5 (0.05) 0.7 (0.07) 0.2

Accept alternative indications, eg the numbers crossed or underlined.

[1]

Q19.

The gradation corresponding to -1.5 correctly indicated on the number line

1

It is not necessary for the point to be labelled -1.5

It is not necessary for the point to be marked with an arrow.

A point corresponding to 0.45 correctly indicated on the number line

1

It is not necessary for the point to be labelled 0.45

*Accept any point marked that is clearly **between** the gradations for 0.4 and 0.5*

It is not necessary for the point to be marked with an arrow.

[2]

Q20.

(a) 3

Do not allow 3.5 OR any other decimal or fraction.

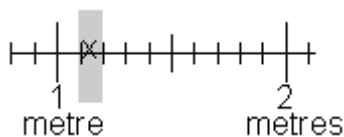
1

(b) The explanation should include evidence of conversion of 1.5m to cm OR 140 to 160 cm to m . This may be implicit, eg:

- “Because 1.5 is between 140 and 160 .”
- “She would need another 10 cm to get 5 points.”

1

(c) Cross on the line **between** 1.1 and 1.2 , **exclusive**.



Accept marks other than a cross if in correct position.

1

[3]

Q21.

0.5

1

0.65

Q22.

£ 302.27

[1]

Q23.Award **TWO** marks for the correct answer of £1.85If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $1\frac{1}{2} \times £1.50 = £2.25$
 $\frac{1}{2}$ of £1.80 = 70p (error)
 $£2.25 + 70p = £2.95$
 $£5 - £2.95 =$

OR

- $£1.50 + 75 = £2.25$
 $£2.25 + 90 = 415p$ (error)
 $£5.00 - 415p =$

OR

- sight of £3.15 **OR** 315p as evidence of evaluating the correct cost of the potatoes and carrots.

***Do not** accept misreads for this question.**Answer need not be obtained for the award of **ONE** mark.**Accept for **ONE** mark an answer of £185 or £185p as evidence of an appropriate method.*

Up to 2 marks

[2]

Q24.Award **TWO** marks for the correct answer of 1.07.If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $1.28 + 1.65 = 2.93$
 $4 - 2.93$

OR

- $4 - 1.28 = 2.72$
 $2.72 - 1.65$

OR

- $4 - 1.65 = 2.35$
 $2.35 - 1.28$

*Accept for **ONE** mark an answer of 107 metres as evidence of an appropriate method.*

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

Up to 2m

[2]

Q25.

Award **TWO** marks for the correct answer of 29.25g.

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

- $6.5 \div 2 = 3.25$
 $3 \times 6.5 = 20.5$ (*error*)
 $3 \times 3.25 = 9.75$
 $20.5 + 9.75$

OR

- 10p + 5p weigh $6.5g + 3.25g = 9.75$
3 of each coin = 9.75×3

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

Up to 2

[2]

Q26.

- (a) £64.30

*Accept £64.30p **OR** £64 30*

***Do not** accept £6430 **OR** £6430p **OR** £64.3*

1

- (b) £4.50

*Accept £4.50p **OR** £4 50*

***Do not** accept £450 **OR** £450p **OR** £4.5*

*If the final '0' is missing from both answers, ie answers given are £64.3 and £4.5 respectively, award **ONE** mark only in (b).*

1

[2]

Q27.

- (a) Award **TWO** marks for the correct answer of £21.80

*Accept £21.80p **OR** £21 80*

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

$$3.50 \times 4 = 14.00$$

$$1.95 \times 4 = 7.80$$

$$14.00 + 7.80 = \text{wrong answer}$$

Accept for **ONE** mark £2180p **OR** £2180 **OR** £21.8 as evidence of appropriate working.

Calculation must be performed for the award of **ONE** mark.

Up to 2

(b) An explanation which recognises that each square slab costs more than half a rectangular slab or equivalent, eg

- 'Half of £3.50 is £1.75, which is less than £1.95';
- 'Two square slabs cost more than one rectangular slab';
- 'Because 12 squares cost £23.40';
- 'Because it would cost £1.60 more'.

Do not accept vague or arbitrary explanations, eg

- 'Because he would need more slabs';
- 'Because square slabs are cheaper than rectangular slabs';
- 'Because it costs more';
- 'He is right because the square slabs are £1.95 each and the rectangular slabs are £3.50 each'.

1

[3]

Q28.

Boxes completed as shown:

$$\boxed{3.5} + \boxed{3.5} + \boxed{3.5} = 10.5$$

Accept 3.5 written once.

Accept $3\frac{1}{2}$

[1]

Q29.

Number circled as shown:

19.95

20.1 19.09 20.09 20.201

Accept alternative unambiguous indications, eg number ticked, crossed or underlined.

[1]

Q30.

- (a) Award **TWO** marks for the correct answer of £7.05

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

- $£20 - £5.45 - £7.50 =$ wrong answer

OR

- $£5.45 + £7.50 = £12.95$

$£20 - £12.95 =$ wrong answer

*Accept for **ONE** mark £705 OR £705p as evidence of appropriate working.*

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

Up to 2

- (b) 15

1

[3]