

Mark schemes

1.

(a) $\frac{2}{5}$

Accept equivalent fractions and decimals e.g. $\frac{4}{10}$ and 0.4

1

(b) Award **TWO** marks for the correct answer of 10.7

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

- $8.1 + 9.3 + 11.9 + 11.8 + 12.4 = 53.5$
 $53.5 \div 5$

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

Any correct rounding or truncating does not negate an appropriate method.

Any value which does not result from correct rounding or truncating implies an additional step not shown.

Up to 2m

[3]

2.

Award **TWO** marks for the correct answer of £5.50

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

- sight of $22 \div 4$

OR

- evidence of appropriate method, e.g.

- 3 tickets cost $3 \times £5 = £15$
1 ticket costs £7
 $£15 + £7 = £22$
 $£22 \div 2 \div 2$

*For **ONE** mark, accept an answer of £550, £550p or £5.5 as evidence of appropriate method.*

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

Up to 2m

[2]

3.

(a) Draws an arrow pointing to 12

Accept unambiguous indication of 12, eg:

- *an arrow drawn within 2mm of the mark for 12*
- *12 circled*

1

(b) Draws a cross on 7

Accept unambiguous indication of 7, eg:

- a cross drawn within 2mm of the mark for 7
- 7 circled

1

[2]

4.

(a) Gives a correct explanation, eg:

- Her average is 15.75
- $14 + 23 + 13 + 13 = 63$
 $63 \div 4$ is more than 15
- If the average is 15, Monday Wednesday and Thursday total 5 below and Tuesday is 8 above so the average must be > 15
- To walk an average of 15 km a day you need to have walked 60 km. Megan has walked 63 km so she is over the average of 15 km

Accept minimally acceptable explanation, eg:

- $63 \div 4$
- $63 \div 4 = 16$
- $63 \div 4 = 15 \text{ r } 3$

Do not accept incomplete or incorrect explanation, eg:

- *If you add up how far she walked in four days and divide by 4, it's more than 15*
- $14 + 23 + 13 + 13 = 63$
- $63 \div 4 = 15$

1

(b) 22

! Follow-through of incorrect total or average

*For 2m or 1m, accept follow-through from incorrect value for the average **or** the total calculated for part (a) used correctly in part (b), eg:*

- *for 16 as answer in part (a), award 2 marks for $85 - 4 \times 16 = 21$*

2

or

85 seen (*the total for 5 days*)

! Correct embedded solutions

Award 1m, for a response which shows 22 as the embedded solution to their working

OR

Shows or implies a complete correct method, eg:

- $(17 \times 5) - 14 - 23 - 13 - 13$
- $17 \times 5 = 80$ (*error*)
 $80 - 63$

1

[3]