6

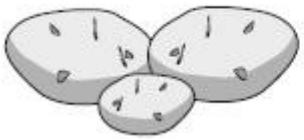
Q1.

How many days are there in September, October and November altogether?

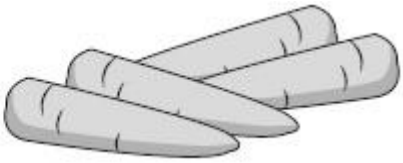
days

1 mark

Q2.



potatoes
£1.50 per kg



carrots
£1.80 per kg

Jack buys $1\frac{1}{2}$ kg of potatoes and $\frac{1}{2}$ kg of carrots.

How much **change** does he get from **£5**?

Show your method

£

2 marks

Q3.

The International Space Station orbits the Earth at a height of 250 miles.

What is the height of the International Space Station in **kilometres?**

Use 8 kilometres equals 5 miles.

km

1 mark

Q4.

Kirsty says,

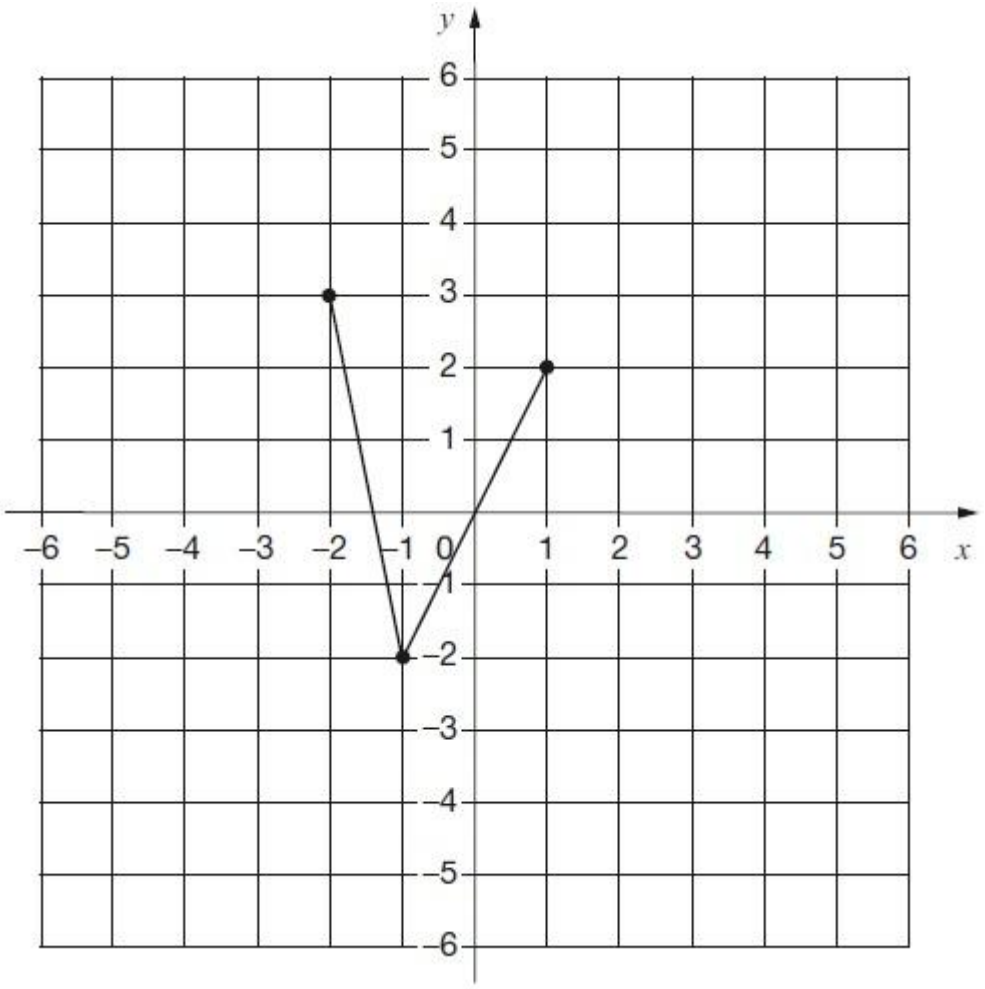
When you double the size of an acute angle, you always get an obtuse angle.

Explain why Kirsty is **not** correct.

1 mark

Q5.

On the grid there are three points joined by two lines.



Lara plots **another point** on the grid at **(−1, 2)**.

She joins the points to make a quadrilateral.

Complete Lara's quadrilateral on the grid.
Use a ruler.

1 mark

Then Lara translates the quadrilateral **4 squares to the right.**

Draw the quadrilateral in its new position on the grid.

1 mark

Q1.

91

[1]

Q2.

Award **TWO** marks for the correct answer of £1.85

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

- $1\frac{1}{2}$ × £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]

Q3.

400

[1]

Q4.

An explanation that includes a correct counter example, e.g.

- When you double 10° it is not obtuse
- 2 × 27° = 54°
- Double 45° is a right angle not obtuse

OR

An explanation that demonstrates where the statement in the question is not correct, e.g.

- If the acute angle is less than 45° then doubling it will be less than 90°, so it won't be obtuse (more than 90°).

***Do not** accept vague or incomplete explanations, e.g.*

- *Sometimes it will be acute*
- *Some acute angles are half an obtuse angle, but not all*
- *When you double an acute angle, you get a right angle*

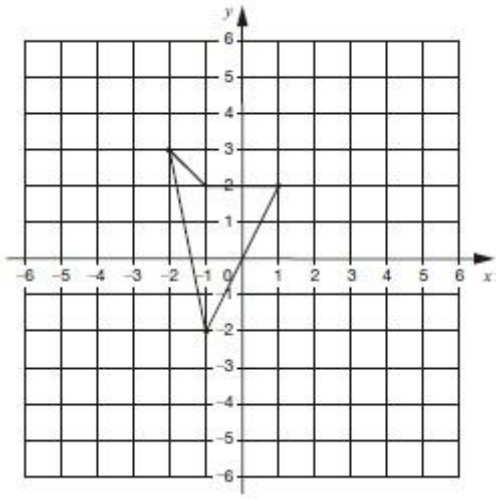
***Do not** accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g.*

- *20°C × 2 = 40°C*
- *20% × 2 = 40%*

[1]

Q5.

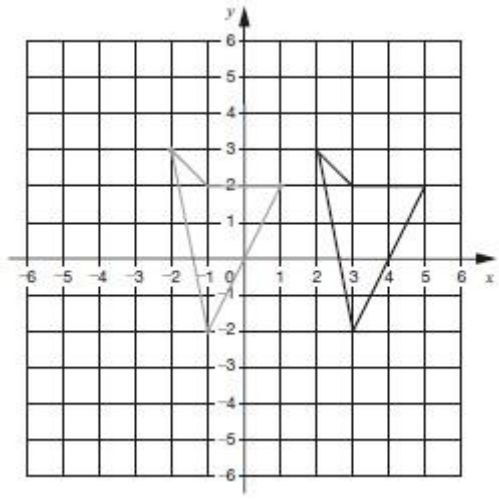
(a) Quadrilateral completed, as shown:



Accept slight inaccuracies in drawing provided the intention is clear.

1

(b) Quadrilateral translated correctly, as shown:



Accept slight inaccuracies in drawing provided the intention is clear.

*Award **ONE** mark if the answer to (b) is a quadrilateral with*

sides drawn and is a correct translation of their answer to (a).

1

[2]