

# QT Quick Test - Grade 3A



1. Carrie is planning a holiday for 5 people for 7 days.  
Here are the costs of the holiday for each person:

Travel	£120	
Hotel	£ 60 per day	420.00
Spending money	£225	

Work out the total cost of the holiday for 5 people for 7 days.

(3 marks)

$$\begin{array}{r} \text{1 person} \\ 120 \\ 420 \\ 225 \\ \hline 765 \end{array} \quad \begin{array}{r} \text{5 people} \\ 765 \\ \times 5 \\ \hline 3825 \end{array} \quad \underline{\underline{£3825}}$$

2. Change 23 metres to cm

(1 mark)

$$\begin{array}{l} 1 \text{ metre} = 100 \text{ cm} \\ 23 \text{ metres} = 2300 \text{ m} \end{array}$$

$$\underline{\underline{2300 \text{ m}}}$$

3. Change 250 metres to kilometres.

(1 mark)

$$\begin{array}{l} 1000 \text{ m} = 1 \text{ km} \\ 250 \text{ m} = 0.25 \text{ km} \end{array}$$

$$\underline{\underline{0.25 \text{ km}}}$$

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4. (a) Work out  $\frac{3}{4}$  of 254

$$\begin{array}{r} 63.5 \\ 4 \overline{) 254.0} \end{array}$$

$$\begin{array}{r} 635 \\ \times 3 \\ \hline 1905 \end{array}$$

(2 marks)

$$\underline{\underline{190.5}}$$

(b) Work out 65% of 460

$$\begin{array}{r} 46 \\ \times 6 \\ \hline 276 \end{array}$$

$$\begin{array}{l} 10\% = 46 \\ \hline 60\% = 276 \\ 5\% = 23 \\ \hline 65\% = 299 \end{array}$$

(2 marks)

$$\underline{\underline{299}}$$

(c) Work out  $8.9 \times 12.4$

$$\begin{array}{r} 124 \\ \times 89 \\ \hline 1116 \\ 9920 \\ \hline 11036 \end{array}$$

(2 marks)

$$\underline{\underline{110.36}}$$

5. Write the ratio 32 : 48 in its simplest form.

(2 marks)

$$\begin{array}{l} \div 2 \quad ( 32 : 48 ) \div 2 \\ \quad \quad ( 16 : 24 ) \\ \div 8 \quad ( 2 : 3 ) \div 8 \end{array}$$

$$\underline{\underline{2 : 3}}$$

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6. A map has a scale of 1 : 30000

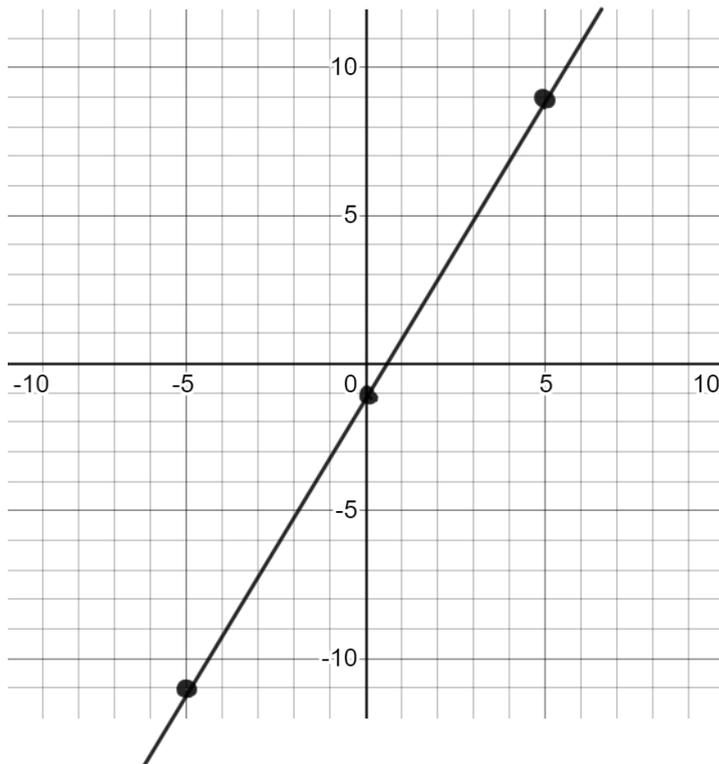
The distance between two points on the map is 6 cm. Work out the real distance between the two points. Give your answer in kilometres. (3 marks)

$$\begin{aligned} & \times 6 \quad ( \quad : 30000 ) \times 6 \\ & \quad \quad 6 : 180000 \text{ cm} \\ & \quad \quad : 1800 \text{ m} \\ & \quad \quad : 1.8 \text{ km} \end{aligned}$$

$$\underline{\underline{1.8 \text{ km}}}$$

7. On the grid, draw the graph of  $y = 2x - 1$

(3 marks)



x	0	5	-5
y	-1	9	-11

$$\begin{aligned} y &= 2(0) - 1 \\ y &= 2(5) - 1 \\ y &= 2(-5) - 1 \end{aligned}$$

# QT Quick Test - Grade 3A



8. Josh needs 40g of sugar to make 15 biscuits.

He also needs:

four times as much flour as sugar

1.5 times as much butter as sugar

Josh is going to make 60 biscuits

Work out how much sugar, butter and flour Josh needs

(3 marks)

<p><u>15 biscuits</u></p> <p>40g sugar</p> <p>160g flour</p> <p>60g butter</p>	<p><u>60 biscuits.</u></p> <p>160g sugar</p> <p>640g flour</p> <p><u>240g</u> butter</p>
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9. Solve  $7p + 30 = 9$

(2 marks)

$$\begin{array}{r}
 7p + 30 = 9 \\
 \underline{-30} \phantom{=} \\
 7p = -21 \\
 \div 7 \\
 \underline{p = -3}
 \end{array}$$

10. A film starts at 7.45 pm. The film lasts 98 minutes. What time does the film finish?

(2 marks)

Timeline diagram showing time intervals:

7.45 → +60 → 8.45 → +30 → 9.15 → +8 → 9.23

9.23 pm.

Total

/26 marks