

# QT Conversions and units



1. Convert 1500 metres to kilometres  $\div 1000$

(1 mark)

1.5 km

2. Convert 8.7km to metres  $\times 1000$

(1 mark)

8700m

3. Convert 3420 grams to kilograms  $\div 1000$

(1 mark)

3.42 kg

4. Convert 0.56 kilograms to grams  $\times 1000$

(1 mark)

560g

5. Convert 120mm to cm  $\div 10$

(1 mark)

12cm

6. Convert 10cm to mm  $\times 10$

(1 mark)

100mm

7. Convert 3.5 litres to millilitres  $\times 1000$

(1 mark)

3500ml

# QT Conversions and units



8. Convert 1260ml to litres  $\div 1000$  (1 mark)

1.26 L

9. Convert 0.65m to cm  $\times 100$  (1 mark)

65 cm

10. Convert 23000cm to metres  $\div 100$  (1 mark)

230 m

11. Convert 63200g to kg  $\div 1000$  (1 mark)

63.2 kg

12. Convert 3455mm to cm  $\div 10$  (1 mark)

345.5 cm

13. Convert 12.5 litres to millilitres  $\times 1000$  (1 mark)

12500 ml

14. Convert 56.5m to kilometres  $\div 1000$  (1 mark)

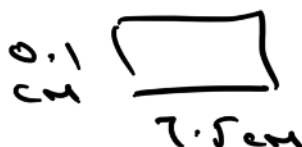
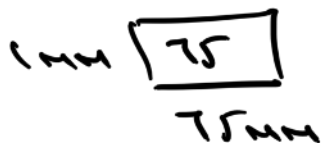
0.0565 km.

# QT Conversions and units



15. Convert  $75 \text{ mm}^2$  to  $\text{cm}^2$

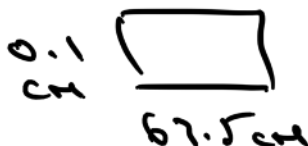
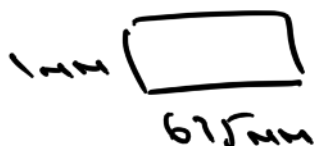
(2 marks)



$$0.75 \text{ cm}^2$$

16. Convert  $675 \text{ mm}^2$  to  $\text{cm}^2$

(2 marks)



$$6.75 \text{ cm}^2$$

17. Convert  $6.5 \text{ m}^2$  to  $\text{cm}^2$

(2 marks)



$$65 \underline{000} \text{ cm}^2$$

18. Convert  $5300 \text{ cm}^3$  to litres

(2 marks)

$$1000 \text{ cm}^3 = 1 \text{ litre}$$

$$5.3 \text{ litres}$$

19. Convert  $25 \text{ cm}^3$  to  $\text{mm}^3$

(2 marks)



$$25000 \text{ mm}^3$$

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20. Convert  $4.5\text{m}^3$  to  $\text{cm}^3$

(2 marks)



$$4500000 \text{ cm}^3$$

21. Convert  $12\text{km/h}$  to  $\text{m/s}$

(2 marks)

$$\frac{12000 \text{ m}}{60 \times 60} = \frac{12000}{3600} = \frac{60}{18} = \frac{10}{3} \text{ m/s} = \underline{\underline{3.3 \text{ m/s}}}$$

22. Convert  $54\text{km/h}$  to  $\text{m/s}$

(2 marks)

$$\frac{54000}{60 \times 60} = \frac{54000}{3600} = \frac{90}{6} = \underline{\underline{15 \text{ m/s}}}$$

23. Convert  $60\text{m/s}$  to  $\text{km/h}$

(2 marks)

$$\begin{aligned} 60 \times 60 \times 60 & \text{ m/h} \\ 216000 & \text{ m/h} \\ \underline{\underline{216}} & \text{ km/h} \end{aligned}$$

24. Convert  $22\text{m/s}$  to  $\text{km/h}$

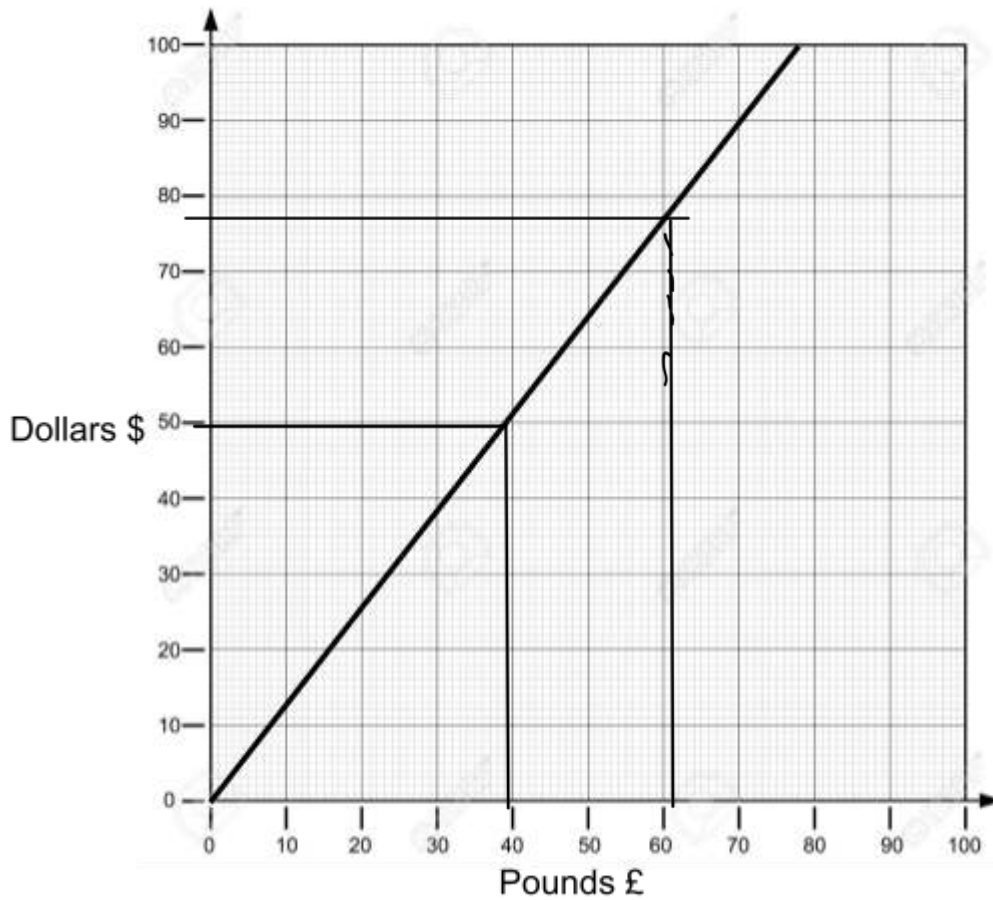
(2 marks)

$$\begin{aligned} 22 \times 60 \times 60 & \text{ m/h} \\ 79200 & \text{ m/h} \\ \underline{\underline{79.2}} & \text{ km/h} \end{aligned}$$

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25. You can use this graph to change between £ (pounds) and \$ (dollars)



(a) Change £60 to Dollars \$  $\$77$  (1 mark)

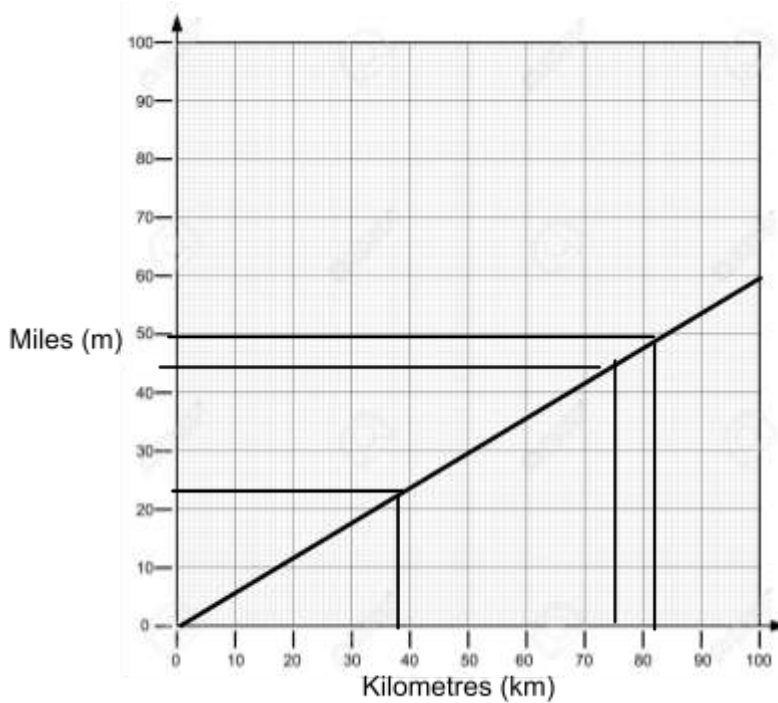
(b) Change \$50 to Pounds £  $\pounds 38$  (1 mark)

(c) Change £180 to Dollars \$  $\pounds 60 = \$77$  (2 marks)  
 $\times 3$  (  $\pounds 180 = \underline{\underline{\$231}}$  )  $\times 3$

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26. You can use this graph to change between miles (m) and kilometres (km)



(a) Change 40 kilometres (km) to miles (m) 25 miles. (1 mark)

(b) Change 50 miles (m) to kilometres (km) 84 km. (1 mark)

(c) Jane drives at a speed of 45mph. Work out Jane's speed in km/h (1 mark)

75 km/h.

(d) Change 100 miles (m) to kilometres (km) (2 marks)

$$\begin{array}{l} \text{miles} \quad \text{km} \\ 50 = 84 \\ \times 2 \quad (100 = 168) + 2 \\ \underline{\underline{168 \text{ km}}} \end{array}$$