

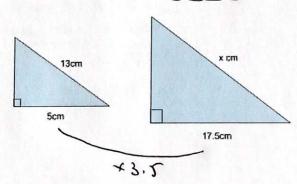
## QT Quick Test 2 - Higher Calculator

1. A lorry travels a distance of 200 miles in 3 hours and 25 minutes. Calculate the average speed of the lorry in miles per hour. Give your answer to 1 d.p.

2. It costs £3.40 to buy 5 oranges. Calculate how much it will cost to buy 18 oranges.

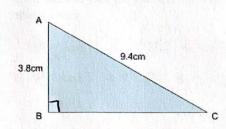
3. Calculate (1.38 x 102) ÷ (2.3 x 104)

4. These triangles are mathematically similar. Calculate the value of x.





## 5. Calculate the length of BC. Give your answer correct to 1 decimal place.



## 6. Given that a:b = 5:4 and b:c = 9:7 Find the ratio a:b:c

## 7. Solve the simultaneous equations:

$$3x + y = 11 \qquad \downarrow \perp$$

$$2x - 4y = -9 \qquad \checkmark 3$$

$$SUR DUTE.$$
 $3x+y=11$ 
 $3x+(3.5)=11$ 
 $3x=7.5$ 
 $x=1.5$ 
 $x=2.5$ 
 $y=3.5$ 



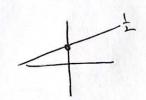
8. Kavin bought a boat for £65,000. In the first year the value of the boat decreased by 25%. In the second year the value of the boat increased by 10%. Calculate the value of the boat after 2 years.

= \frac{1.3652}{23652}.

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= \frac{1.3652}{1.65} = \frac{1.10}{1.65} = \frac{1.10}{1.65}.

9. Line A passes through the point (0,5) and has a gradient of ½. Write down the equation of



10. The bearing of Crows Nest from Deacons Hill is 140°. What is the bearing of Deacons Hill from Crows Nest?

to Deaven 4:50