



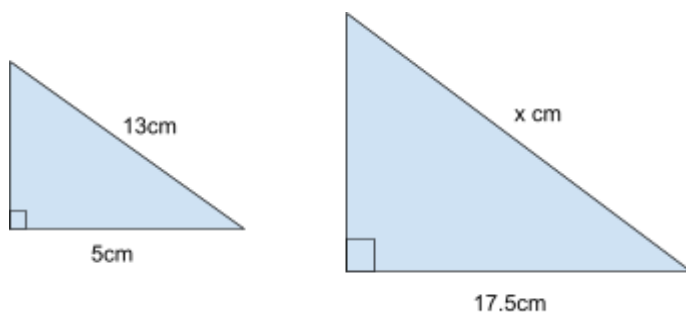
QT Quick Test 2 - Higher Calculator

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.

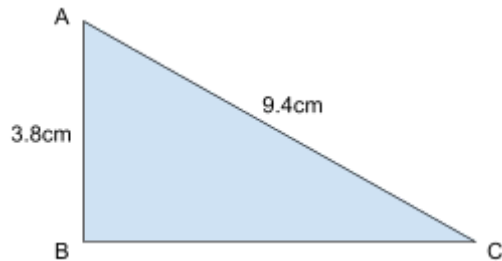
3. Calculate $(1.38 \times 10^2) \div (2.3 \times 10^{-4})$

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:

$$3x + y = 11$$

$$2x - 4y = -9$$



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.

9. Line A passes through the point (0,5) and has a gradient of $\frac{1}{2}$. Write down the equation of line A.

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