

Ex 2 Pythagoras Theorem

Section A (Non-calculator)

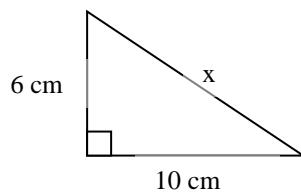
- 1 Work out –
- | | | | |
|----|-----------------------------|----|--|
| a) | $\frac{3}{7} + \frac{2}{5}$ | e) | $\frac{1}{3}$ of $(\frac{7}{8} - \frac{1}{4})$ |
| b) | 0.037×400 | f) | $(7 - 3)^2$ |
| c) | 59×17 | g) | $\frac{3}{4} \div \frac{9}{17}$ |
| d) | $17 - 2 \times 3.5 + 8$ | h) | $13.176 \div 8$ |

Section B (Knowledge)

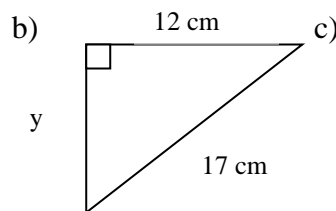
Only use your calculator if you need to!

- 2 Work out x, y, z.

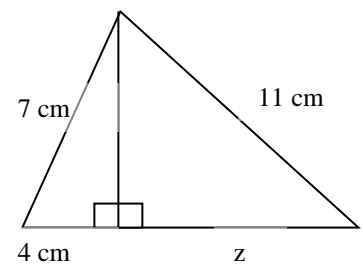
a)



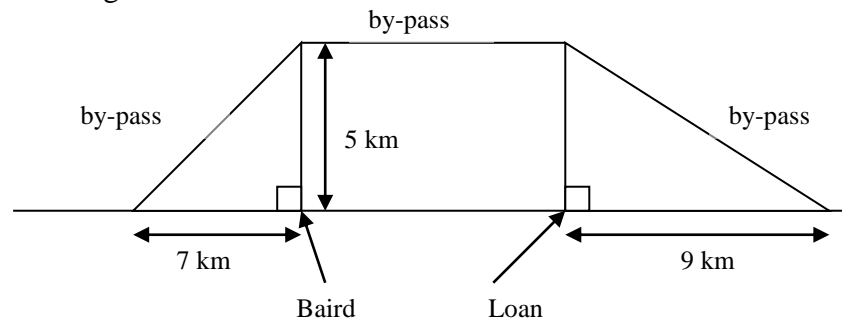
b)



c)



- 3 Baird and Loan are two small towns 8 kilometres apart. A by-pass is being built to reduce the traffic passing through the two towns as shown in the diagram.



Calculate the total length of the by-pass.

Section C (Mixed)

- 4 Solve algebraically the equation $8x + 5 = 5x - 13$
- 5 Work out the area of this shape.

