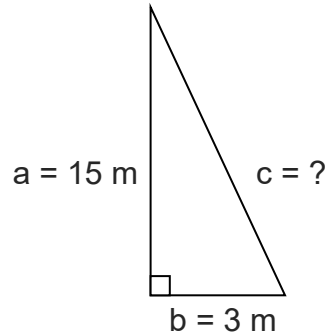


PYTHAGORAS'S RULE

SKILLS QUESTIONS

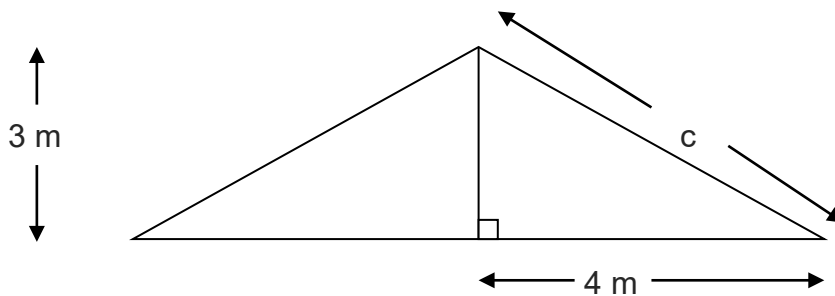
FIND THE HYPOTENUSE

Q1. A roadside advertisement is 15 metres high. What is the length of wire that anchors the sign 3 metres from the base?



$$\begin{aligned}
 c^2 &= a^2 + b^2 \\
 &= 15^2 + 3^2 \\
 &= \\
 c &= \sqrt{\quad} \\
 &=
 \end{aligned}$$

Q2. In the diagram of a roof below, calculate the length of the sloped part.



Q3. Use Pythagoras's Rule to find the hypotenuse of each of the following in the table.

	Side a	Side b	Side c Hypotenuse
(a)	6	8	
(b)	5	12	
(c)	4.5	6	
(d)	12 cm	20 cm	
(e)	48 m	150 m	

ANSWERS

Q1. 15.3m

Q2. 5m

Q3. (a) 10

(b) 13

(c) 7.5

(d) 23.32cm

(e) 157.49m