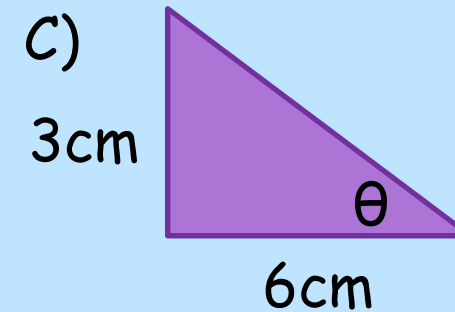
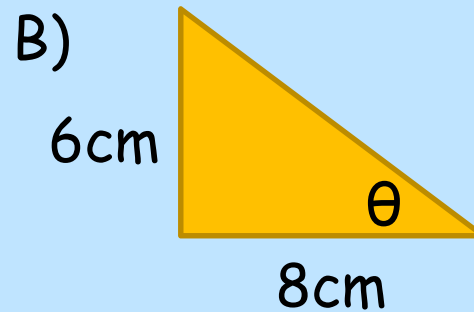
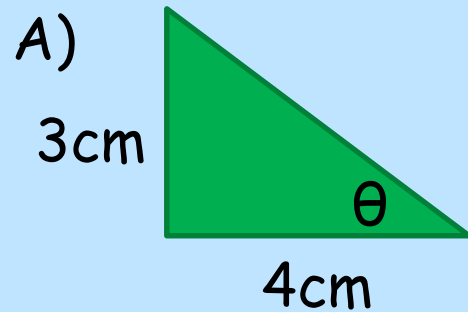
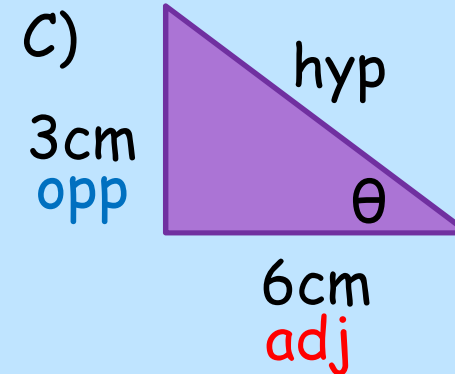
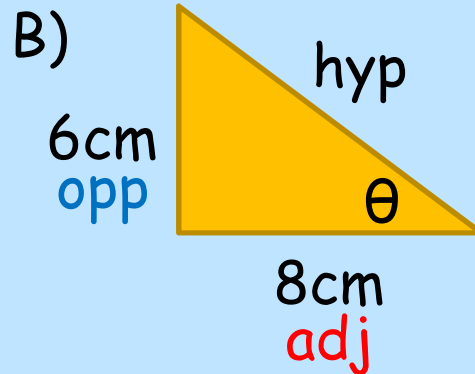
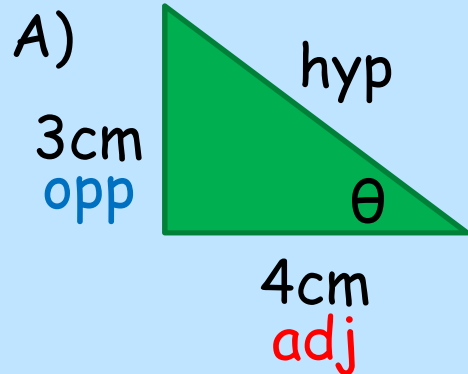


- 1) Draw each triangle accurately in your book.
- 2) Measure the length of the hypotenuse and record it.
- 3) Measure the size of angle θ (theta) and record it.



Triangle	Angle (θ)			hyp			
A		3cm	4cm	5cm			
B		6cm	8cm	10cm			
C		3cm	6cm	6.7cm			

Your results should be similar to this; you should be within a couple of units (mm or degrees) either way.



Triangle	Angle (θ)	opp	adj	hyp			
A	$\approx 37^\circ$	3cm	4cm	5cm			
B	$\approx 37^\circ$	6cm	8cm	10cm			
C	$\approx 27^\circ$	3cm	6cm	6.7cm			

opposite angle θ

adjacent to angle θ

Now fill in the last three columns. Give your answers to three significant figures:

Triangle	Angle (θ)	opp	adj	hyp	$\frac{\text{opp}}{\text{hyp}}$	$\frac{\text{adj}}{\text{hyp}}$	$\frac{\text{opp}}{\text{adj}}$
A	$\approx 37^\circ$	3cm	4cm	5cm			
B	$\approx 37^\circ$	6cm	8cm	10cm			
C	$\approx 27^\circ$	3cm	6cm	6.7cm			

Write down anything that you notice about your results.

You should get something like this:

Triangle	Angle (θ)	opp	adj	hyp	$\frac{\text{opp}}{\text{hyp}}$	$\frac{\text{adj}}{\text{hyp}}$	$\frac{\text{opp}}{\text{adj}}$
A	$\approx 37^\circ$	3cm	4cm	5cm	0.6	0.8	0.75
B	$\approx 37^\circ$	6cm	8cm	10cm	0.6	0.8	0.75
C	$\approx 27^\circ$	3cm	6cm	6.7cm	0.448	0.896	0.5