

NAMING A TRIANGLE BY ITS SIDES

- 1 A paper triangle has sides of 7 cm, 7 cm and 7 cm.
- 2 Compare the sides: all **three** are the same length.
- 3 A triangle with all three sides equal is **equilateral**.

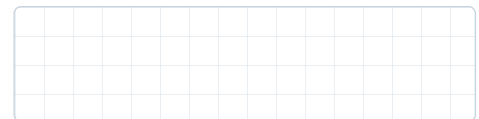
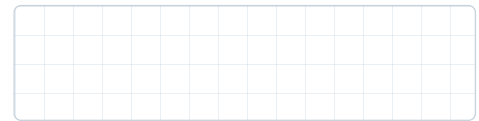
WARM-UP

The first row is done. Use the side lengths to name each triangle.

	Type
a. 5 cm, 5 cm, 5 cm	equilateral
b. 6 cm, 6 cm, 4 cm	
c. 7 cm, 5 cm, 3 cm	
d. 8 cm, 8 cm, 8 cm	
e. 9 cm, 6 cm, 9 cm	
f. 10 cm, 7 cm, 4 cm	

PRACTICE

- 1 Sean cuts three lollipop sticks each 5 cm long and builds a triangle. Which family does his triangle belong to?
- 2 Nina makes a paper triangle with two long sides of 13 cm and one short side of 11 cm. Name its family.
- 3 Tom glues straws of 14 cm, 16 cm and 19 cm into a triangle. Which family is it?
- 4 A workshop cuts a metal triangle with every side 10 cm long for a yield sign. Name its family.



SPOT THE MISTAKE

Aoife looks at a triangle with sides 5 cm, 5 cm and 3 cm and says:

'Two sides are equal, so it is equilateral.'

Aoife is wrong. What type of triangle is it? Explain.

REFLECT

What do you check first to name a triangle — equal sides or equal angles?

