Year 1 maths: Triangles, squares and circles (Hard)

Maths · Shapes and space
Level: Hard

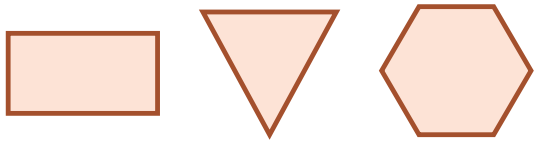
Student: _____ Date: _____

Instructions
- There are 5 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. Rosie drew these three shapes. What is the total number of sides?

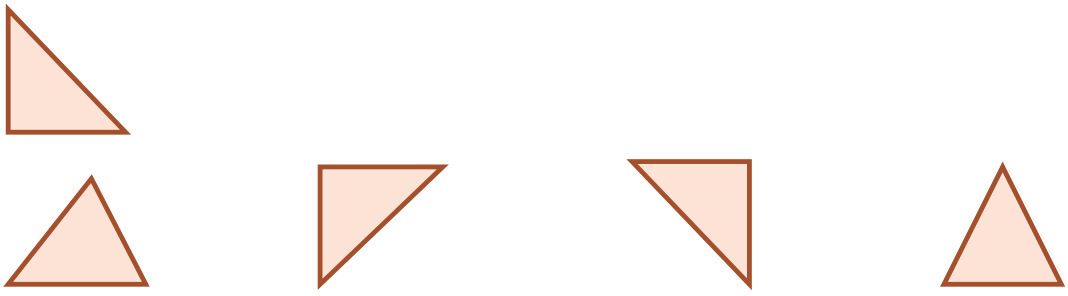
Answer: ☐ sides



Working:

2. Ollie has one gap left in his jigsaw, shaped like this triangle. The loose pieces are lying turned round on the table. Which piece will fill the gap exactly?

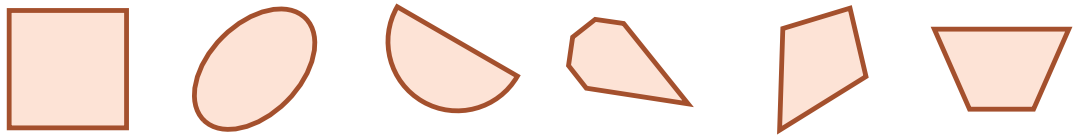
Circle one answer.



○ **A** ○ **B** ○ **C** ○ **D**

3. Sort the shapes: 4 sides and not 4 sides.

Tick the group each one belongs in.

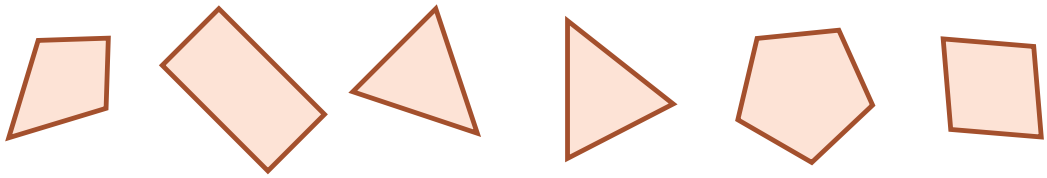


1 2 3 4 5 6

	4 sides	Not 4 sides
Shape 1	☐	☐
Shape 2	☐	☐
Shape 3	☐	☐
Shape 4	☐	☐
Shape 5	☐	☐
Shape 6	☐	☐

4. Sort the shapes: 4 sides and not 4 sides.

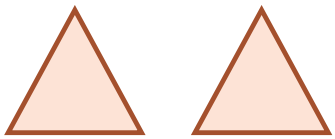
Tick the group each one belongs in.



1 2 3 4 5 6

	4 sides	Not 4 sides
Shape 1	☐	☐
Shape 2	☐	☐
Shape 3	☐	☐
Shape 4	☐	☐
Shape 5	☐	☐
Shape 6	☐	☐

5. How many sides do 2 triangles have altogether? Answer: ☐



Working:

Answer key

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1. 13 sides

A rectangle has 4 sides, a triangle 3 and a hexagon 6: 4 + 3 + 6 = 13.

2. C

The piece with its square corner at the top right is the same shape and size as the gap. A half turn moves its square corner to the bottom left, and it fits. The small piece is too small, and the others have no square corner.

3. Shape 1: 4 sides; Shape 2: Not 4 sides; Shape 3: Not 4 sides; Shape 4: Not 4 sides; Shape 5: 4 sides; Shape 6: 4 sides

Count the straight sides of each shape.

4. Shape 1: 4 sides; Shape 2: 4 sides; Shape 3: Not 4 sides; Shape 4: Not 4 sides; Shape 5: Not 4 sides; Shape 6: 4 sides

Count the straight sides of each shape.

5. 6

Each triangle has 3 sides: 6 sides altogether.