Year 5 Maths
Steppingstone activity

Summer week 4 Lesson 3 – 13.05.20
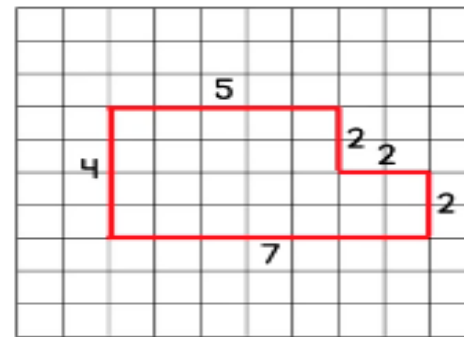**LO: To find the perimeter of polygons**
Success Criteria:

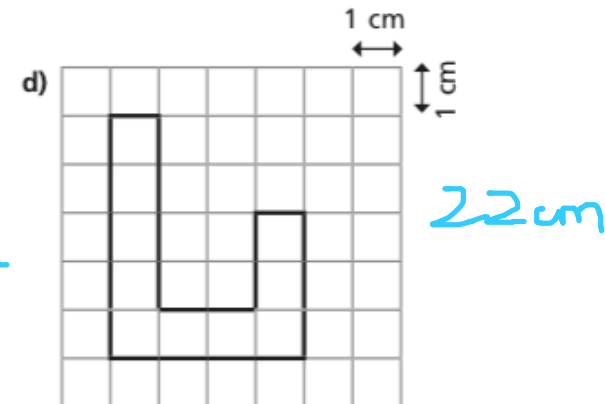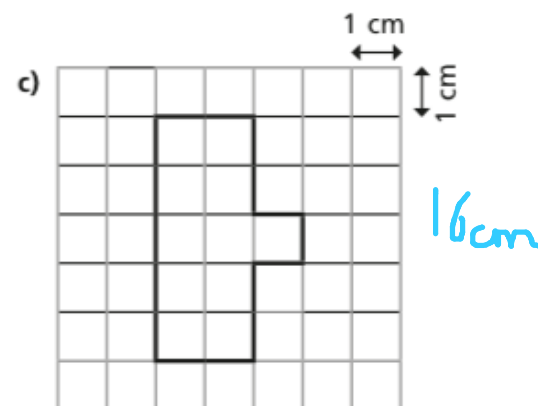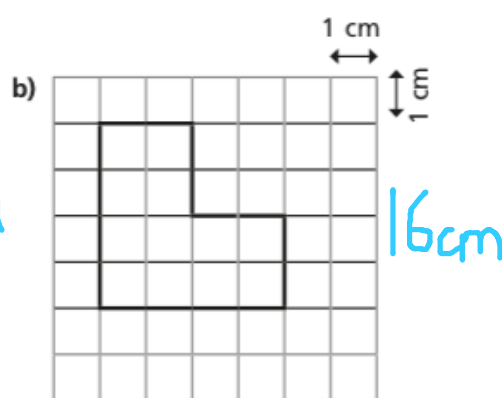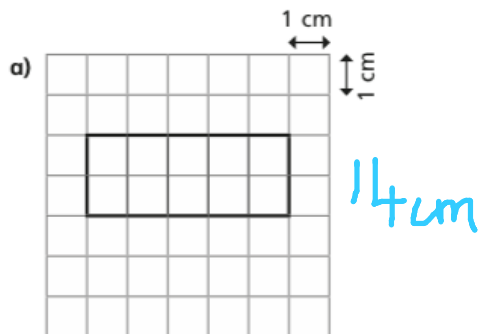| |
|---|
| 1. Measure or work out the length of EVERY side of the shape given. |
| 2. Make an addition sum using all your measurements |
| 3. Find the total – this is your perimeter. |
| 4. **Remember the perimeter is the distance all the way around a shape.** |

Model

What is Perimeter?

The perimeter is the distance all the way around the outside of a 2D shape.

$$5 + 2 + 2 + 2 + 7 + 4 = 22$$

Now complete these part whole models:

a) 1 cm — 14cm

b) 1 cm — 16cm

c) 1 cm — 16cm

d) 1 cm — 22cm

Make up some of your own.

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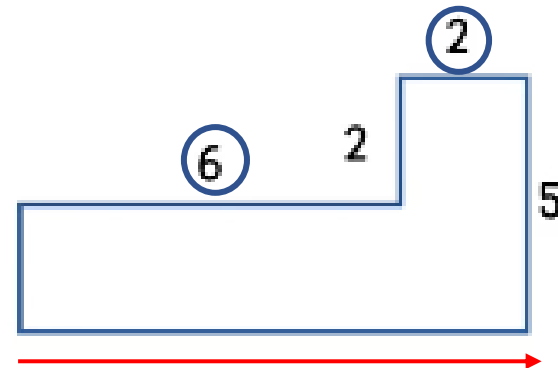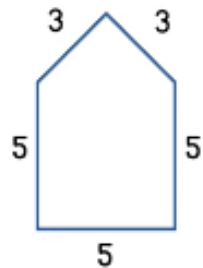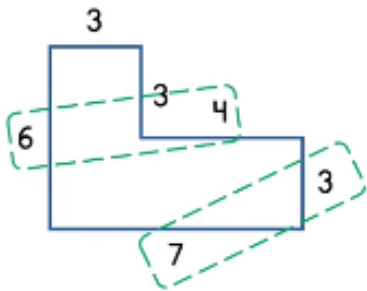**LO: To find the perimeter of polygons**
Success Criteria:

1. Measure or work out the length of EVERY side of the shape given.
2. Make an addition sum using all your measurements
3. Find the total – this is your perimeter.
4. Remember the perimeter is the distance all the way around a shape.

Model:

$$10 + 10 + 3 + 3 = 26 \qquad 3 \times 5 + 2 \times 3 = 21$$

Calculate the perimeter of the shapes.

Don't forget number bonds can help to quicken up your calculating.

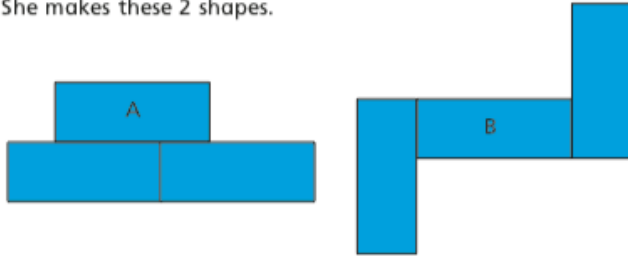| |
|---|
| **If some measurements are missing, we can work them out from what we already know.** |
| **e.g. the long length can be worked out using the length of 6cm and the short length 2 cm added together, it is therefore = 8cm.** |

Rosie is making shapes made up of 3 rectangles.

Each rectangle has a length of 10 cm and a width of 4 cm.
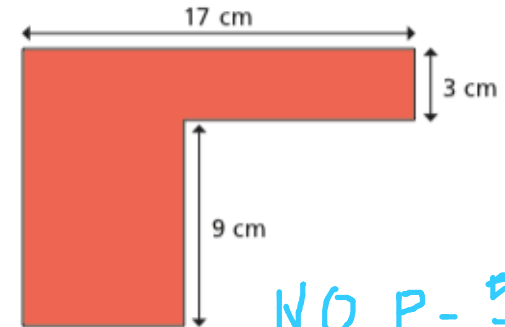
She makes these 2 shapes.

A

B

a) Which shape has the greatest perimeter? _B_

b) What other shapes can you make with 3 rectangles?
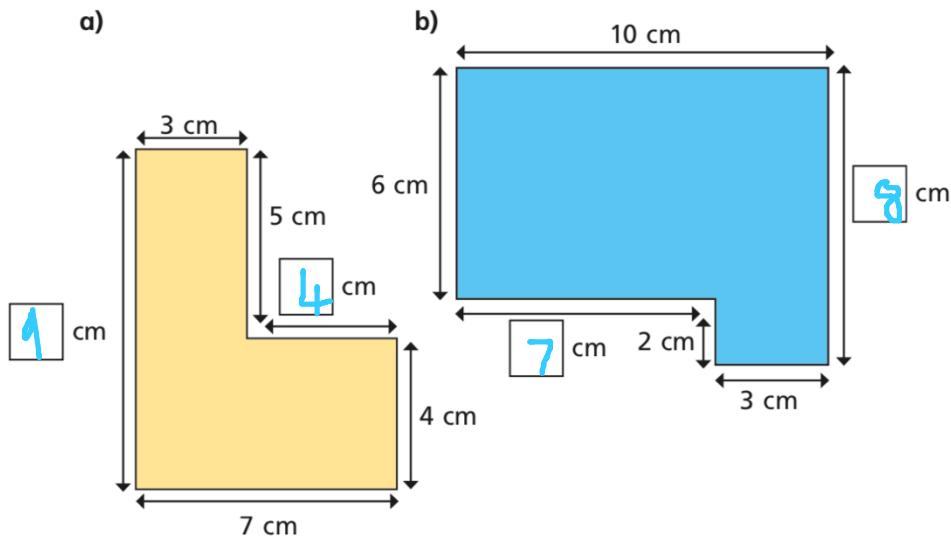
What is the perimeter of the shapes?

Work out the missing lengths on these shapes.

a)

3 cm

5 cm

4 cm

1 cm

7 cm

b)

10 cm

6 cm

8 cm

7 cm

2 cm

3 cm

Mo thinks that there is not enough information to calculate the perimeter of the shape.

Is he correct? How do you know?

17 cm

3 cm

9 cm

NO P = 58 cm
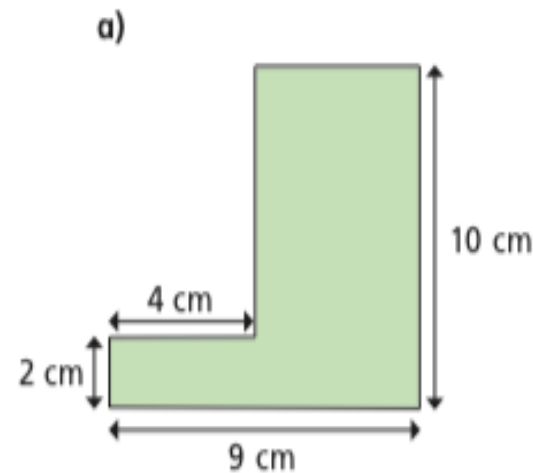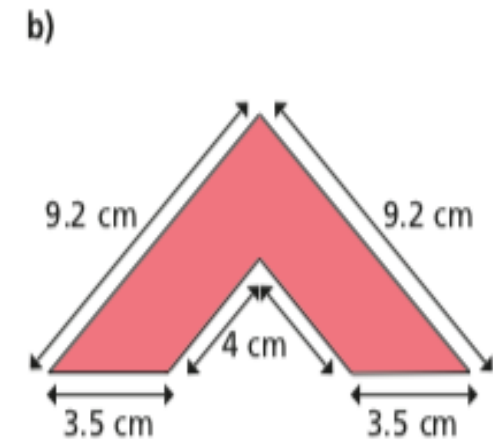
Calculate the perimeter of these shapes.

a)

10 cm

4 cm

2 cm

9 cm

38 cm

b)

9.2 cm

9.2 cm

4 cm

3.5 cm

3.5 cm

33.4 cm