Year 4 Maths
Steppingstone activity

Lesson 8
LO: To measure the perimeter of a rectilinear shape
Success Criteria:
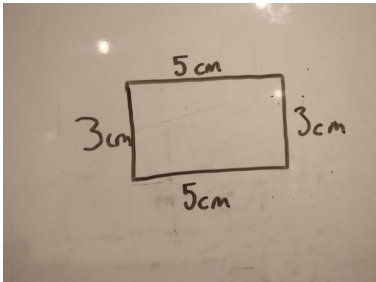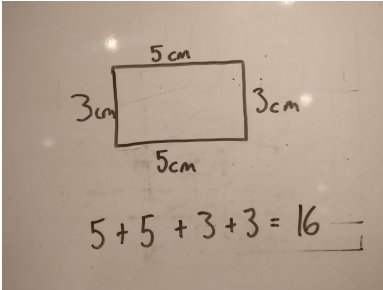
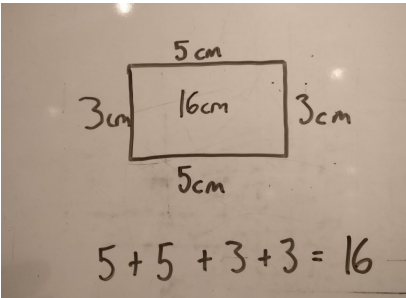| |
| --- |
| 1. Look at your shape |
| 2. Add your 4 four sides |
| 3. Write the answer |

Remember: Carefully count up the four sides

Model

| 5 cm |
| 3cm ... 3cm |
| 5cm |

1.

| 5 cm |
| 3cm ... 3cm |
| 5cm |
5 + 5 + 3 + 3 = 16

2.

| 5 cm |
| 3cm 16cm 3cm |
| 5cm |
5 + 5 + 3 + 3 = 16

3.

Now you try…

8cm   **16cm**   **12cm**   **18cm**   **24cm**

2cm
2cm **A** 2cm
2cm

4cm **C** 4cm
4cm   4cm

3cm
3cm   3cm
3cm

3cm
A 2cm
6cm

8cm
4cm
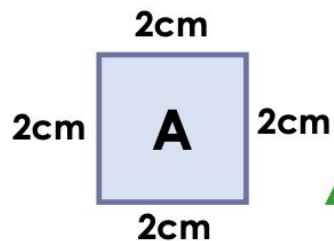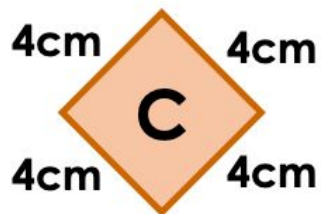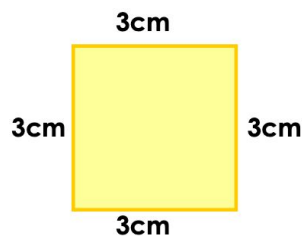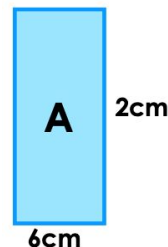
Year 4 Maths

Task:

Lesson 8
LO: To measure the perimeter of a rectilinear shape

Success Criteria:

1.	Look at your shape
2.	Work out the missing sides
3.	Add your 4 four sides
4.	Write the answer

Remember: Do not include the corner squares!

Model:

1.

2.

3.

4.

Year 4 Maths Main activity

Complete at least 2 columns, more if you can!

Task 1	Task 2
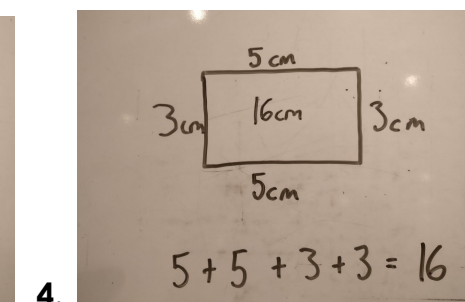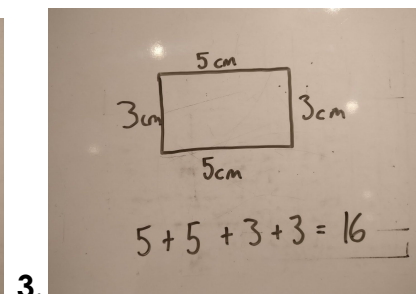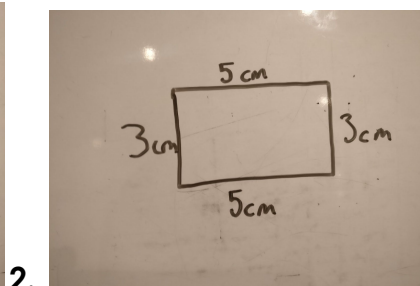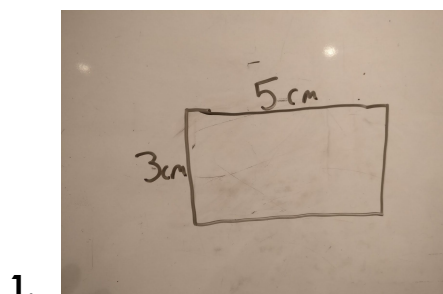
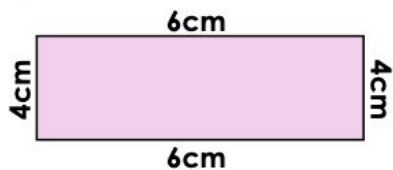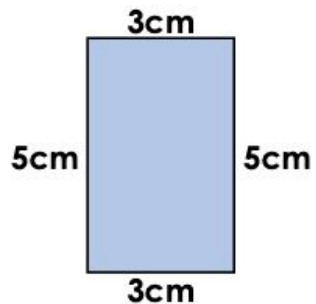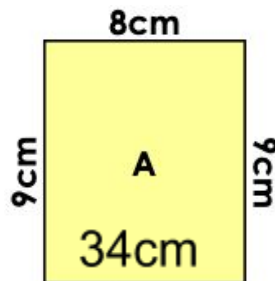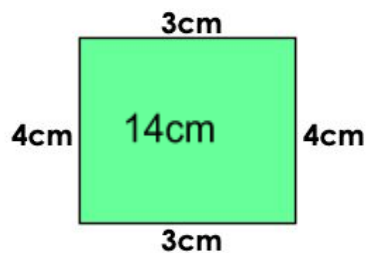## Task 1

Practice: Add the four sides up carefully

Answers in the shapes

3cm

4cm 14cm 4cm

3cm

8cm

9cm A 9cm

34cm

8cm

3cm

5cm 5cm

3cm

6cm

4cm 6cm 4cm

6cm

3cm

8cm C 8cm

22cm

3cm

23cm A

16cm
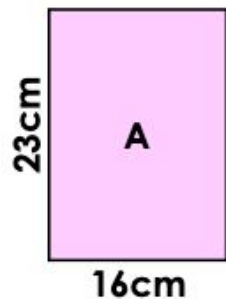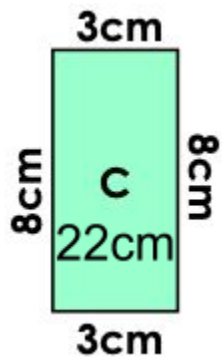
Task 2

Practice: Look carefully at the units of measure

Answers in the shapes

16cm

12cm

58cm

23cm A

16cm

26cm C

15cm

18cm

120mm

80mm A

200mm

20mm

21cm

110mm
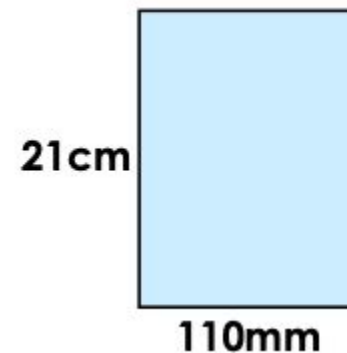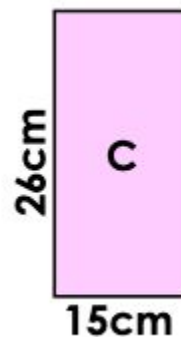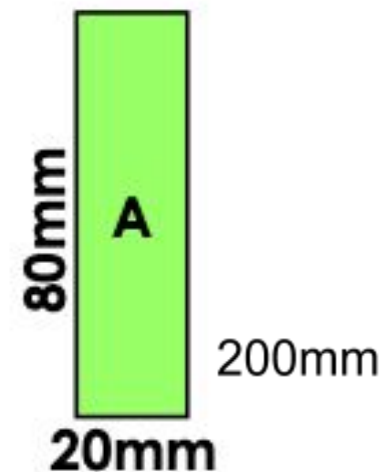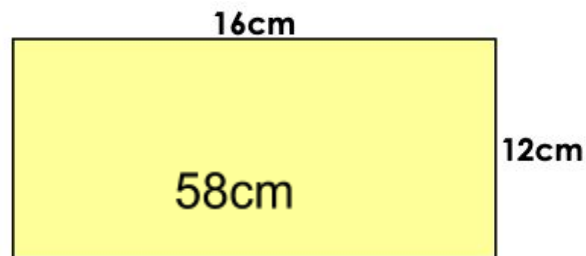
64cm or 640mm

Task 3

Reasoning
Explain your answers.

6a. Ralph says,

If a shape has a perimeter of 31cm, then it cannot be a rectangle.

Is Ralph correct? Prove it.

9b. Spencer says,

If a rectangle has two sides which are odd numbers, then the perimeter will also be an odd number.

Is Spencer correct? Prove it.

6a. Yes. A perimeter which is an odd number cannot be made using whole numbers. Accept 'no' if the children reference decimal numbers.

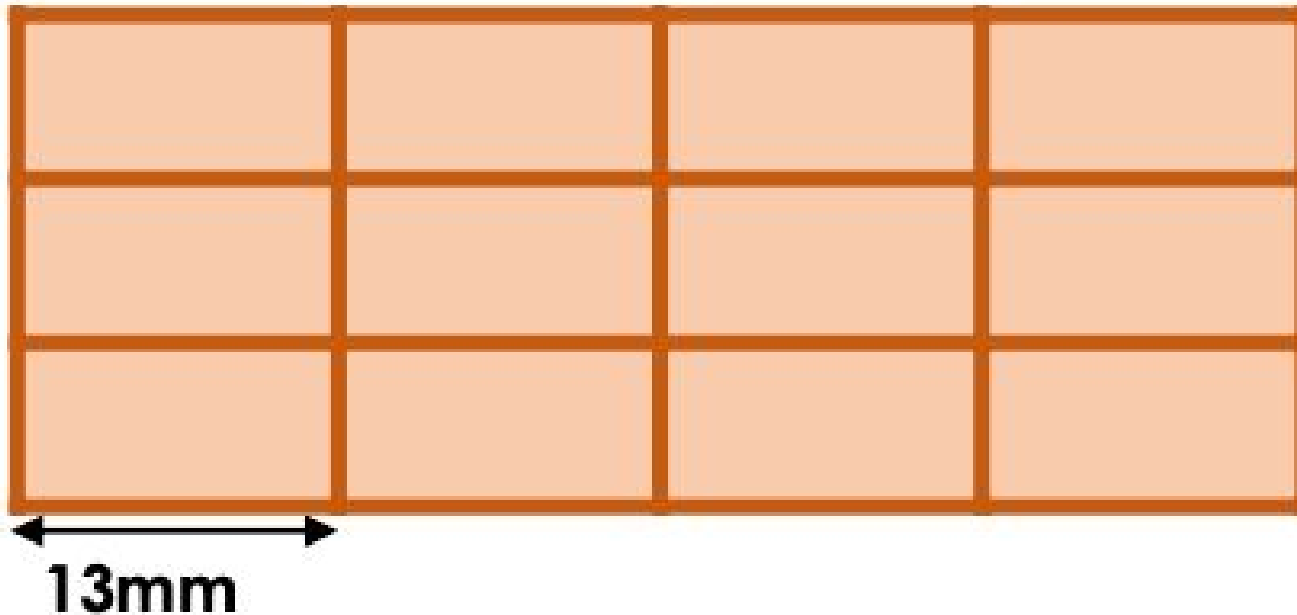9b. No. This can be proven with an example such as, 11cm + 11cm + 12cm + 12cm = 46cm.

Task 4

Problem solving

5a. This wall is made up of bricks. Each brick has a length of 13mm and a total perimeter of 36mm.

13mm

Calculate the perimeter of the whole wall. 5a. **134mm.**