

Year 3 Maths WB 20.04.20

Measurement

Activity 1 Adding Length:

Add the following lengths:

1.  $6\text{m} + 3\text{m} =$

2.  $40\text{cm} + 20\text{ cm} =$

3.  $120\text{cm} + 65\text{ cm} =$

4. A shop makes a display by putting a vase on a stand. The vase is 50cm tall and the stand is 1m 20 cm. What is the total height?

5.

| Display | Stand Height | Vase Height | Total Height |
|---------|--------------|-------------|--------------|
| A       | 40 cm        | 30 cm       |              |
| B       | 80 cm        | 30 cm       |              |
| C       | 1 m 20 cm    | 60 cm       |              |
| D       | 1 m 30 cm    | 70 cm       |              |

Complete the table.

6. Complete the number sentences:

$75\text{cm} + 25\text{cm} =$

$27\text{mm} + \underline{\quad}\text{ mm} = 3\text{cm}$

$6\text{cm} + 70\text{mm} = \quad\text{ cm}$

$2\text{m } 25\text{cm} + \underline{\quad\quad}\text{ cm} = 3\text{m}$

### Activity 2: Subtracting length

1. Answer the following:

$$3\text{m } 50\text{cm} - 1\text{m} =$$

$$1\text{m } 5\text{cm} - 95\text{cm} =$$

$$3\text{m } 50\text{cm} - 2\text{m} =$$

$$65\text{mm} - 3\text{cm} =$$

2. Sophia puts a flower in a vase. The vase is 1m 20cm high and the flower is 1m 40cm high. How far does the flower stick out above the vase?

3. Answer the following:

$$1\text{m } 10\text{cm} - 50\text{cm} =$$

$$350\text{cm} - \underline{\quad\quad} = 2\text{m } 10\text{ cm}$$

$$65\text{mm} - 2\text{cm} =$$

$$2\text{cm } 5\text{ mm} - 8\text{mm} =$$

$$120\text{mm} - \underline{\quad\quad} = 6\text{cm}$$

### Activity 3: Measuring the perimeter

The perimeter is the distance around the sides of a shape. You need to know how long each side of the shape is before you can calculate the perimeter.

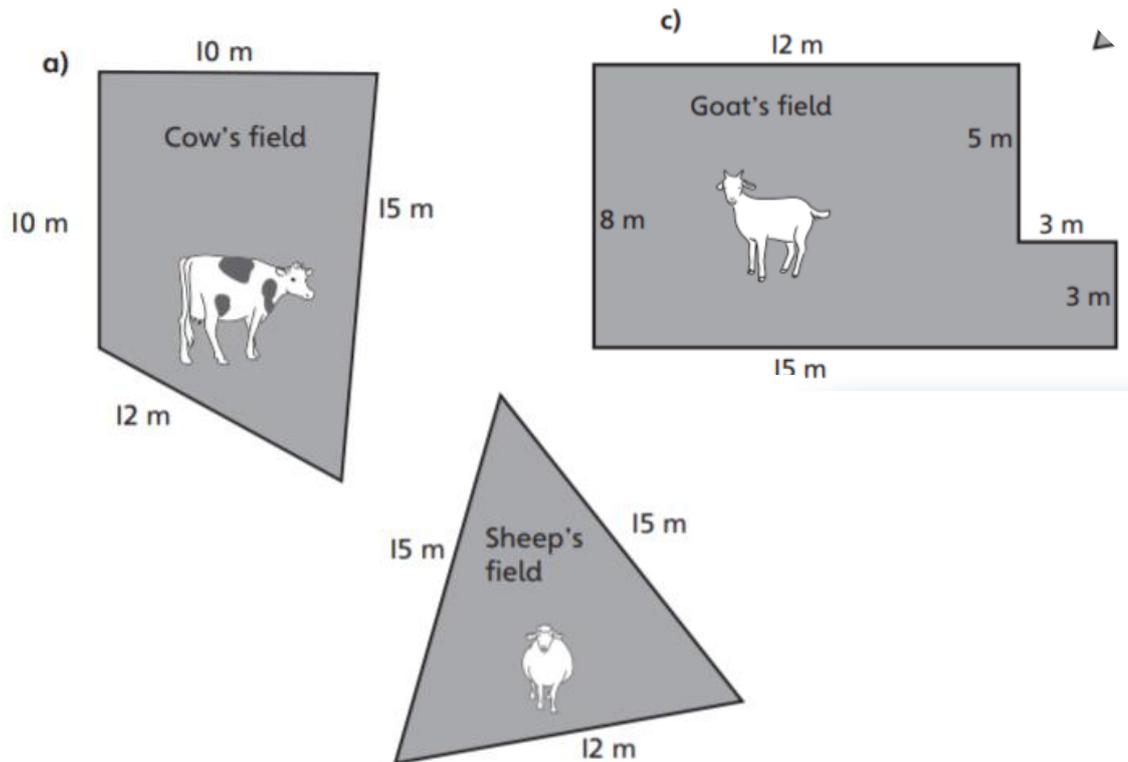
[https://www.youtube.com/watch?v=n5ULJ\\_kcFzI](https://www.youtube.com/watch?v=n5ULJ_kcFzI)

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zsr4k7h>

1. Draw a square, rectangle and a triangle. Can you find the perimeter of each shape?
2. Can you now order the shapes smallest to largest based on their perimeters?
3. Can you draw a shape with a perimeter of 8cm?
4. Can you measure the perimeter of items in your house and record these. You may like to measure your kitchen table, your TV or a door!

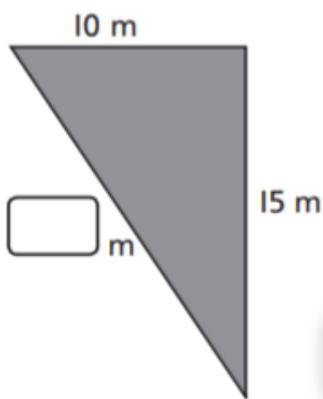
Activity 4: Measuring perimeter

1. Jen needs to put a fence around the perimeter of her fields. Can you work out the perimeter of each field?

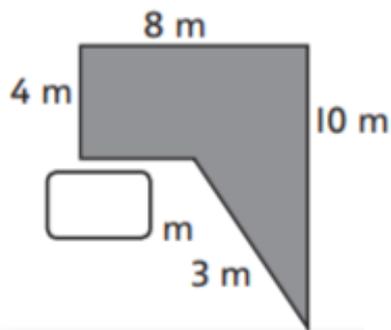


2. Complete the missing side lengths of the fields.

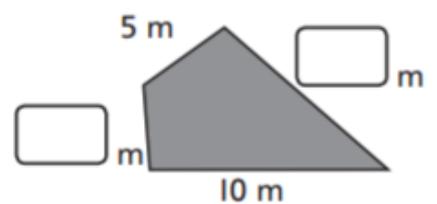
Field A:  
Perimeter: 37 m



Field B:  
Perimeter: 30 m



Field C:  
Perimeter: 26 m



3. Match the items to the most likely perimeters

|                           |       |
|---------------------------|-------|
| A piece of A4 paper       | 420m  |
| An interactive whiteboard | 526cm |
| A football field          | 380mm |
| A £5 note                 | 101cm |

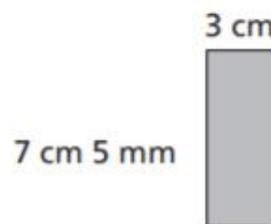
Activity 5: Problem solving- Measurement

1. Luis swims 3 lengths of 25 meters each. How far does he swim?  
 $25 \times \underline{\quad} =$
2. Emma cuts 90cm ribbon into 5 equal pieces. How long is each piece?  
 $\underline{\quad} \div \underline{\quad} =$
3. A school field is a square. Each side is 40m long. How much fencing is needed to go the whole way round?  
 $\underline{\quad} \times \underline{\quad} =$
4. Betty has 60cm of ribbon. She uses 24cm then 95mm. How much ribbon is left?  
 $60\text{cm} = \underline{\quad}\text{mm}$   
 $24\text{cm} = \underline{\quad}\text{mm}$   
 $60\text{mm} - \underline{\quad}\text{mm} - \underline{\quad}\text{mm} =$
5. A tower has 6 storeys of 4m 50cm and a roof of 3m 27cm. What is the total height?  
 $6 \times \underline{\quad} =$   
 $\underline{\quad} + 3\text{m } 27\text{cm} =$

Challenge

Look at the measurements of this rectangle.

The rectangle has been used twice to make this shape:



What is the perimeter of the shape?

The perimeter is  cm and  mm.

What perimeters could you make with three of these rectangles?