



## Number Nest Weekly Challenge

### Warm up

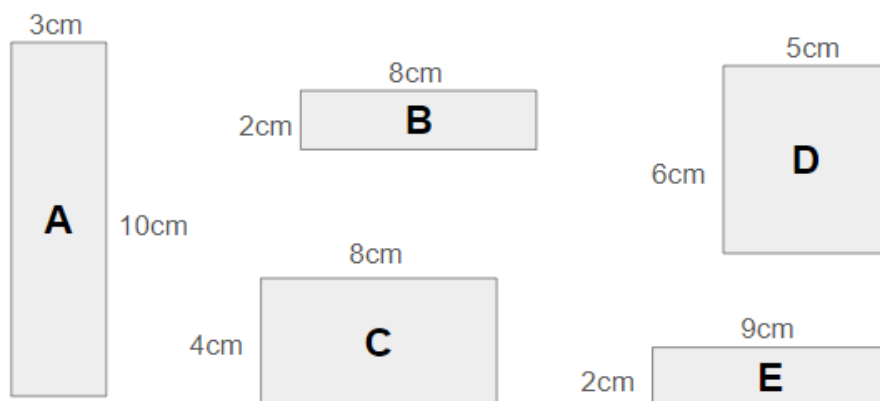
Match the pint values with their approximate equivalent values in ml.

3 pints	<b>1704 ml</b>
8 pints	<b>4544 ml</b>
10 pints	<b>5680 ml</b>
1 pint	<b>568 ml</b>
6 and $\frac{1}{2}$ pints	<b>3692 ml</b>
5 pints	<b>2840 ml</b>

**Remember 1  
pint  $\approx$  568ml**

### Activity

1. Answer the questions based on the shapes below.



- Which rectangle has the smallest perimeter? **B**
- Which two rectangles have the same perimeter? **D & E**
- Which two rectangles have the same area? **A & D**

06.05.24

2. Mickey has a piece of rectangular paper with width 21cm and length 30cm. Mickey also has a piece of square paper with 25cm and length 25cm. What is the difference in area between the two pieces of paper?

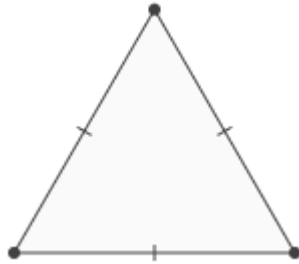
$$21 \times 30 = 630 \text{ cm}^2$$

$$25 \times 25 = 625 \text{ cm}^2$$

$$630 \text{ cm}^2 - 625 \text{ cm}^2 = 5 \text{ cm}^2$$

**The difference in area is 5 cm<sup>2</sup>**

3. Two shapes have the same perimeter. The length of each side of the triangle is 12cm.



Calculate the area of the square.

$$\text{Perimeter} = 3 \times 12 = 36 \text{ cm}$$

$$36 \div 4 = 9 \text{ (each side of the square)}$$

$$\text{Area} = 9 \times 9 = 81 \text{ cm}^2$$

### Puzzle

How many triangles of all shapes and sizes can you find in the picture?

**There are 37 triangles in the shape.**

