



## Grade 8 - Mathematics

### Measurement 3

#### Memo



1. Find the perimeter of a rectangle with sides of 5cm and 13cm.

$$\begin{aligned} P &= 2(L+B) \\ &= 2(13\text{cm} + 5\text{cm}) \\ &= 2(18\text{cm}) \\ &= 36\text{cm} \end{aligned}$$

2. Find the perimeter of a triangle with sides of 30mm, 5cm and 0,02m.

$$\begin{aligned} P &= 30\text{mm} + 5\text{cm} + 0,02\text{m} \\ &= 30\text{mm} + 50\text{mm} + 20\text{mm} \\ &= 100\text{mm} \end{aligned}$$

3. The perimeter of a rectangle is 50cm. If one of the sides is 10cm, what is the length of the other side.

$$\begin{aligned} P &= 2(L + B) \\ 50\text{cm} &= 2(L + 10\text{cm}) \\ 50\text{cm} &= 2L + 20\text{cm} \\ 50\text{cm} - 20\text{cm} &= 2L \\ 30\text{cm} &= 2L \\ 30\text{cm} \div 2 &= L \\ 15\text{cm} &= L \end{aligned}$$

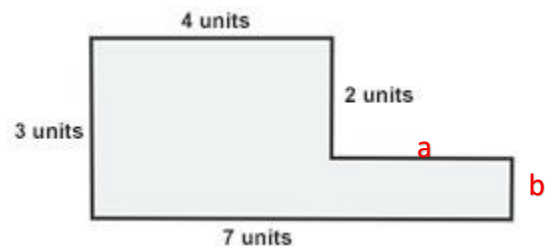
4. The perimeter of an isosceles triangle is 80mm. The base of the triangle is 20mm.

$$\begin{aligned} P &= 2s + \text{base} \\ 80\text{mm} &= 2s + 20\text{mm} \\ 80\text{mm} - 20\text{mm} &= 2s \\ 60\text{mm} &= 2s \\ 60\text{mm} \div 2 &= s \\ 30\text{mm} &= s \end{aligned}$$



# WorksheetCloud

5. Calculate the perimeter of the following shape:



$$\begin{aligned} P &= 4 \text{ units} + 2 \text{ units} + a + b + 7 \text{ units} + 3 \text{ units} \\ &= 4 \text{ units} + 2 \text{ units} + 3 \text{ units} + 1 \text{ units} + 7 \text{ units} + 3 \text{ units} \\ &= 20 \text{ units} \end{aligned}$$

6. Calculate the cost of fencing a square field with a side of 32m at R60 per meter.

$$\begin{aligned} P &= 4s \\ &= 4 \times 32\text{m} \\ &= 128\text{m} \\ \text{Cost} &= 128\text{m} \times \text{R}60 \\ &= \text{R}7\,680 \end{aligned}$$