



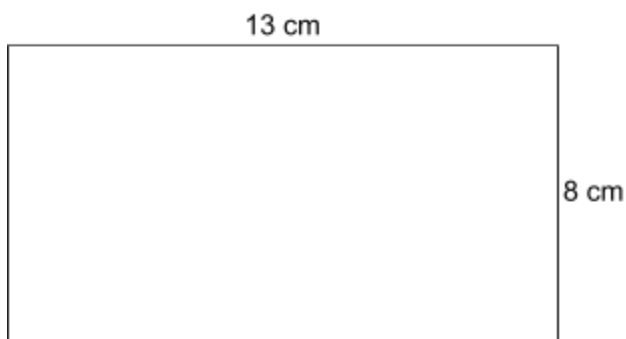
Perimeter of Rectangles and Squares

FREE Worksheet - 2

Time: 15 minutes

(Detailed solutions at the end)

1. Find the perimeter of the rectangle below.



- a. 42 cm
b. 21 cm
c. 104 cm
d. 5 cm
2. The perimeter of a rectangle is 70 cm. Its length is 20 cm. Calculate its breadth.

Answer: _____ cm

3. The length of the rectangle below is three times its width. What is its perimeter?



Answer: _____ cm



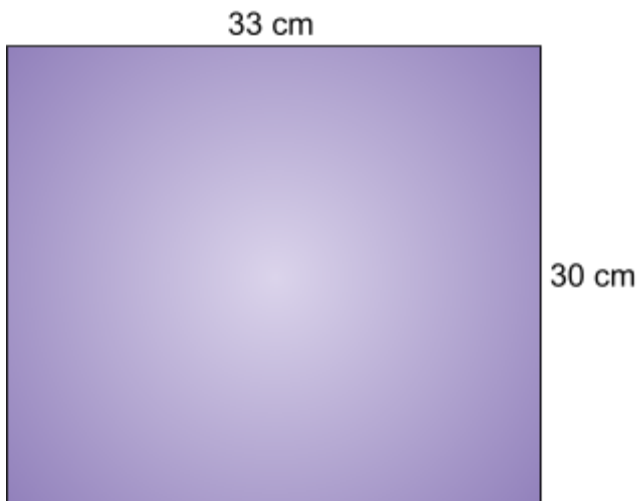
4. Kailey joins 10 identical ice-cream sticks to form the rectangle below. What is the perimeter of the rectangle formed?



- a. 36 cm
b. 72 cm
c. 90 cm
d. 45 cm
5. The perimeter of a rectangle is 98 cm and its breadth is 22 cm. What is its length?

Answer: _____ cm

6. Betty measures the length and width of a rectangular scarf to be 33 cm and 30 cm. What is the smallest length of ribbon she will need to sew around the scarf?



Answer: _____ cm



SOLUTIONS

Problem 1

Perimeter of rectangle = length + breadth + length + breadth

Given,

$$\text{Length} = 13 \text{ cm}$$

$$\text{Breadth} = 8 \text{ cm}$$

Therefore,

$$\text{Perimeter} = 13 + 8 + 13 + 8 = \mathbf{42 \text{ cm}} \text{ (Answer: a)}$$

Problem 2

Perimeter of rectangle = length + breadth + length + breadth

$$\text{Perimeter} \div 2 = \text{length} + \text{breadth}$$

Given,

$$\text{Perimeter} = 70 \text{ cm and length} = 20 \text{ cm}$$

$$\text{Length} + \text{breadth} = 70 \div 2 = 35$$

Therefore,

$$\text{Breadth} = 35 - 20 \text{ cm} = \mathbf{15 \text{ cm}}$$



Problem 3

Perimeter of rectangle = length + width + length + width

Given,

$$\text{Width} = 5 \text{ cm}$$

Then,

$$\text{Length} = 3 \times 5 = 15 \text{ cm}$$

Therefore,

$$\text{Perimeter} = 15 + 5 + 15 + 5 = \mathbf{40 \text{ cm}}$$

Problem 4

Perimeter of rectangle = length + breadth + length + breadth

Given,

$$\begin{aligned} \text{Breadth of rectangle} &= \text{Length of 1 ice-cream stick} \\ &= 9 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Length of rectangle} &= 4 \times \text{Length of 1 ice-cream stick} \\ &= 4 \times 9 \text{ cm} \\ &= 36 \text{ cm} \end{aligned}$$

Therefore,

$$\begin{aligned} \text{Perimeter of rectangle formed} &= 36 + 9 + 36 + 9 \\ &= \mathbf{90 \text{ cm (Answer: c)}} \end{aligned}$$



Problem 5

Perimeter of rectangle = length + breadth + length + breadth

Perimeter \div 2 = length + breadth

Given,

Perimeter = 98 cm and breadth = 22 cm

Length + breadth = $98 \div 2 = 49$

Therefore,

Length = $49 - 22 \text{ cm} = \mathbf{27 \text{ cm}}$

Problem 6

Smallest length of ribbon needed = Perimeter of scarf
= length + width + length + width

Given,

Length = 33 cm

Width = 30 cm

Therefore,

Perimeter = $23 + 15 + 23 + 15 = 76 \text{ cm}$

Length of ribbon needed = **76 cm**