



The National
Orthodox School
Shmaisani

Key answer

Name:

Worksheet(2) Area

Grade:6(A)

Subject : Math

Date :

Objective: Find the area of some shapes.

$$\text{Area of square} = (\text{side length})^2$$

$$\text{Area of rectangle} = \text{length} \times \text{width}$$

$$\text{Area of parallelogram} = \text{base} \times \text{height}$$

$$\text{Area of triangle} = \frac{1}{2} \times \text{base} \times \text{height}$$

$$\text{Area of trapezium} = \frac{1}{2} \times (\text{base1} + \text{base2}) \times \text{height}$$

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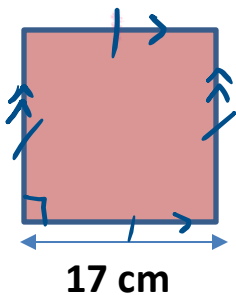
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Exercise 1: Find the area of the following shapes:

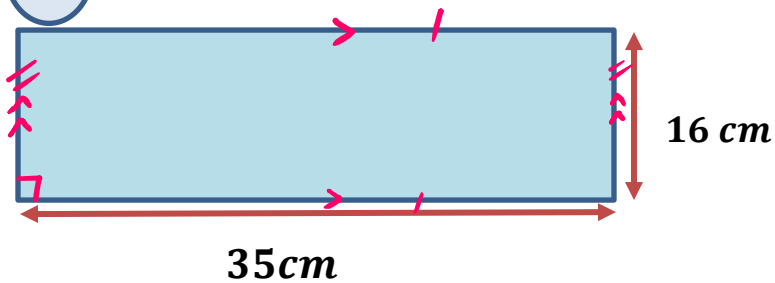
1



$$\begin{aligned} A &= (\text{Side Length})^2 \\ &= (17)^2 \\ &= 17 \times 17 \\ &= \boxed{289} \text{ cm}^2 \end{aligned}$$

$$\begin{array}{r} \textcircled{4} \\ 17 \\ \underline{17^x} \\ 119 \\ \underline{17^0} \\ 289 \end{array}$$

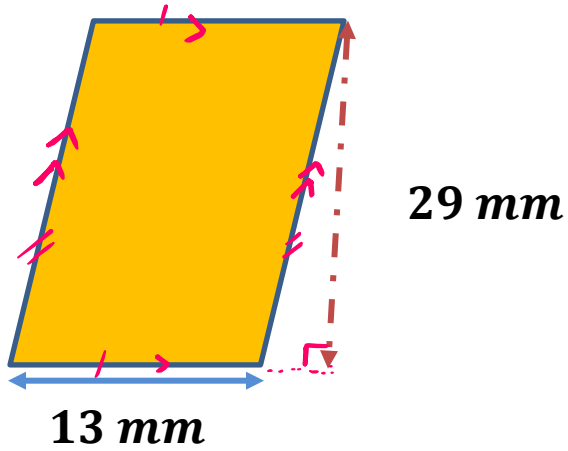
2



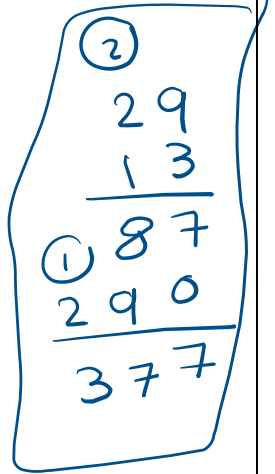
$$\begin{aligned} A &= L \times W \\ &= 35 \times 16 \\ &= \boxed{560} \text{ cm}^2 \end{aligned}$$

$$\begin{array}{r} \textcircled{3} \\ 35 \\ \underline{16^x} \\ 210 \\ \underline{350} \\ 560 \end{array}$$

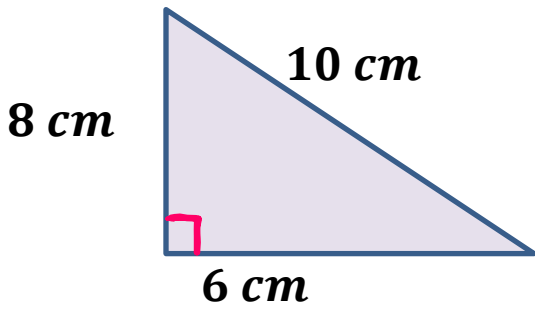
3



$$\begin{aligned} A &= b \times h \\ &= 13 \times 29 \\ &= \boxed{377} \text{ mm}^2 \end{aligned}$$

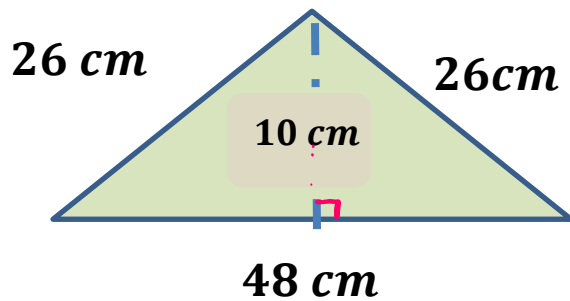


4



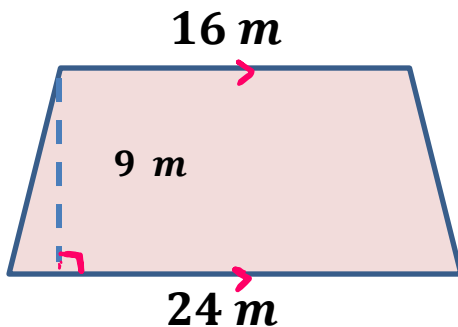
$$\begin{aligned} A &= \frac{1}{2} \times b \times h \\ &= \frac{1}{\cancel{2}^2} \times \frac{\cancel{6}^3}{1} \times \frac{8}{1} \\ &= \frac{24}{1} \\ &= \boxed{24} \text{ cm}^2 \end{aligned}$$

5



$$\begin{aligned}
 A &= \frac{1}{2} * b * h \\
 &= \frac{1}{\cancel{2}^2} * \overset{24}{\cancel{48}^1} * \frac{10}{1} \\
 &= \boxed{240} \text{ cm}^2
 \end{aligned}$$

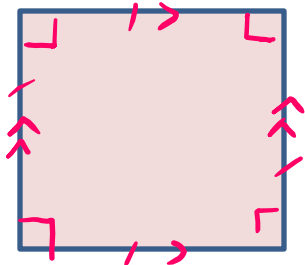
6



$$\begin{aligned}
 A &= \frac{1}{2} * (b_1 + b_2) * h \\
 &= \frac{1}{2} * (24 + 16) * 9 \\
 &= \frac{1}{2} * (40) * 9 \\
 &= \frac{1}{\cancel{2}^2} * \overset{20}{\cancel{40}^1} * \frac{9}{1} \\
 &= \boxed{180} \text{ m}^2
 \end{aligned}$$

Exercise (2): find the missing dimension in each of the shapes:

1



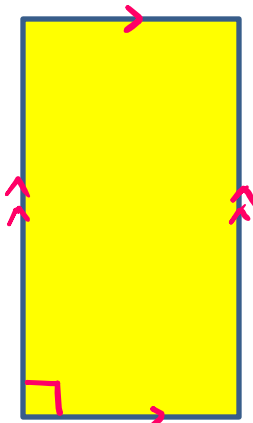
$x = ?$
Area = 49m^2

$$A = (\text{Side Length})^2$$

$$= \sqrt{49} = \sqrt{x^2}$$

$$x = 7, \boxed{-7} \Rightarrow \boxed{x = 7\text{cm}}$$

2



$w = 8\text{ cm}$
Area = 96 cm^2

$l = ?$

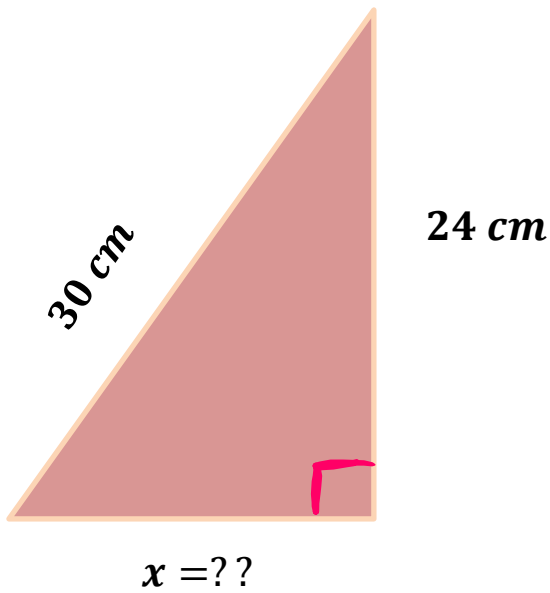
$$A = L \times w$$

$$\boxed{96 = L \times 8}$$

$$\frac{96}{8} = \frac{L \times \cancel{8}}{\cancel{8}}$$

$$\boxed{L = 12\text{ cm}}$$

$$\begin{array}{r} 12 \\ 8 \overline{) 96} \\ \underline{8} \\ 16 \\ \underline{16} \\ 0 \end{array}$$



Area = 216 cm²

$$A = \frac{1}{2} \times b \times h$$

$$216 = \frac{1}{2} \times \frac{x}{1} \times \frac{24}{1}$$

$$216 = 12 \times x$$

$$\frac{216}{12} = \frac{12 \times x}{12}$$

$$x = 18 \text{ cm}$$

Area

- The **area** of a figure is the number of square units that cover the surface of the closed figure.



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