

## Area (Squares)

Date:

Name:

Given the AREA, use the formula, " $A = s^2$ ", give the length of the missing side in each square below and SHOW ALL YOUR WORKING!

<http://www.learnersgrid.com>

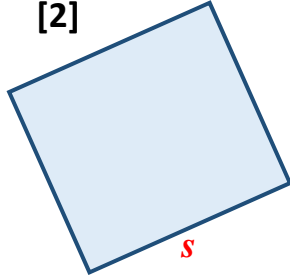
**Use your calculator!**

[1]



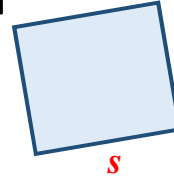
[1]  $A = 106.1 \text{ mm}^2$

[2]



[2]  $A = 158.8 \text{ mm}^2$

[3]



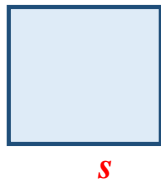
[3]  $A = 216.1 \text{ m}^2$

[4]



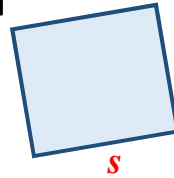
[4]  $A = 246.5 \text{ cm}^2$

[5]



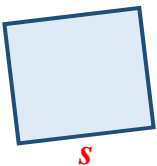
[5]  $A = 428.5 \text{ mm}^2$

[6]



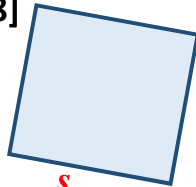
[6]  $A = 515.3 \text{ mm}^2$

[7]



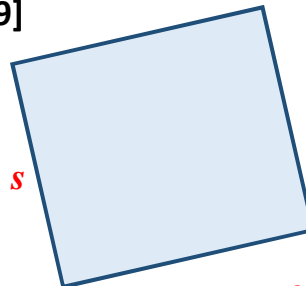
[7]  $A = 660.5 \text{ mm}^2$

[8]



[8]  $A = 712.9 \text{ mm}^2$

[9]



[9]  $A = 882.1 \text{ m}^2$

# ANSWERS

## Area (Squares)

Date:

Name:

Given the AREA, use the formula, " $A = s^2$ ", give the length of the missing side in each square below and SHOW ALL YOUR WORKING!  
Round to 1 d.p.

<http://www.learnersgrid.com>

*Use your calculator!*

[1] 10 mm

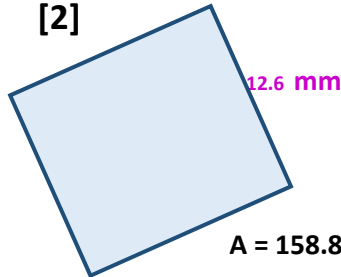


$$A = 106.1 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{106.1} \quad 106.1 &= s^2 \quad \sqrt{s^2} \\ 10 &= s \\ s &= 10.3 \text{ mm} \end{aligned}$$

[2]



$$A = 158.8 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{158.8} \quad 158.8 &= s^2 \quad \sqrt{s^2} \\ 13 &= s \\ s &= 12.6 \text{ mm} \end{aligned}$$

[3]



$$A = 216.1 \text{ m}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{216.1} \quad 216.1 &= s^2 \quad \sqrt{s^2} \\ 15 &= s \\ s &= 14.7 \text{ m} \end{aligned}$$

[4] 15.7 cm

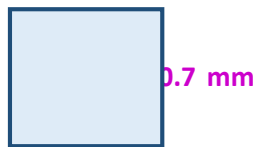


$$A = 246.5 \text{ cm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{246.5} \quad 246.5 &= s^2 \quad \sqrt{s^2} \\ 15.7 &= s \\ s &= 15.7 \text{ cm} \end{aligned}$$

[5]

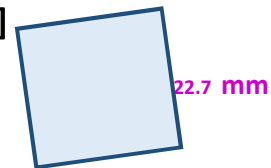


$$A = 428.5 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{428.5} \quad 428.5 &= s^2 \quad \sqrt{s^2} \\ 20.7 &= s \\ s &= 20.7 \text{ mm} \end{aligned}$$

[6]



$$A = 515.3 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{515.3} \quad 515.3 &= s^2 \quad \sqrt{s^2} \\ 22.7 &= s \\ s &= 22.7 \text{ mm} \end{aligned}$$

[7] 26 mm



$$A = 660.5 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{660.5} \quad 660.5 &= s^2 \quad \sqrt{s^2} \\ 26 &= s \\ s &= 25.7 \text{ mm} \end{aligned}$$

[8]

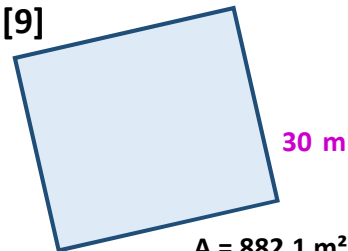


$$A = 712.9 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{712.9} \quad 712.9 &= s^2 \quad \sqrt{s^2} \\ 27 &= s \\ s &= 26.7 \text{ mm} \end{aligned}$$

[9]



$$A = 882.1 \text{ m}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{882.1} \quad 882.1 &= s^2 \quad \sqrt{s^2} \\ 30 &= s \\ s &= 29.7 \text{ m} \end{aligned}$$