

## Area (Squares)

Date:

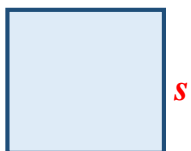
Name:

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. if necessary.

<http://www.learnersgrid.com>

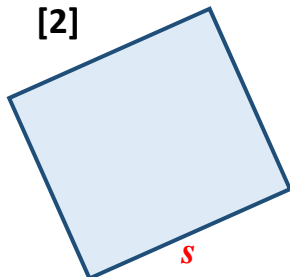
*Use your calculator!*

[1]



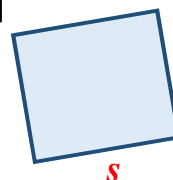
[1]  $A = 49 \text{ mm}^2$

[2]



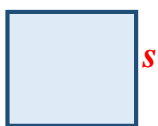
[2]  $A = 81 \text{ mm}^2$

[3]



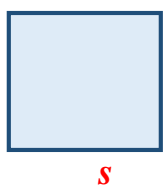
[3]  $A = 121 \text{ mm}^2$

[4]



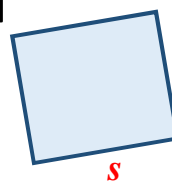
[4]  $A = 144 \text{ m}^2$

[5]



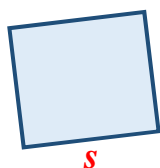
[5]  $A = 289 \text{ m}^2$

[6]



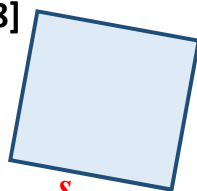
[6]  $A = 361 \text{ mm}^2$

[7]



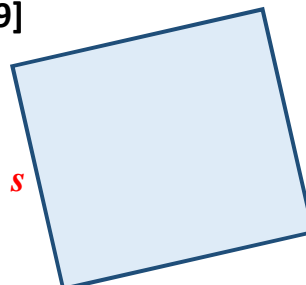
[7]  $A = 484 \text{ cm}^2$

[8]



[8]  $A = 529 \text{ m}^2$

[9]



[9]  $A = 676 \text{ mm}^2$

# ANSWERS

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*Use your calculator!*

[1] 7 mm

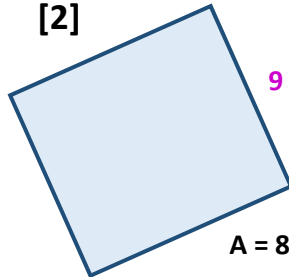


$$A = 49 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{49} \quad 49 &= s^2 \quad \sqrt{s^2} \\ 7 &= s \\ s &= 7 \text{ mm} \end{aligned}$$

[2]

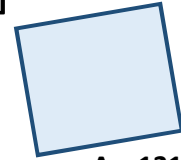


$$A = 81 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{81} \quad 81 &= s^2 \quad \sqrt{s^2} \\ 9 &= s \\ s &= 9 \text{ mm} \end{aligned}$$

[3]

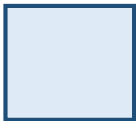


$$A = 121 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{121} \quad 121 &= s^2 \quad \sqrt{s^2} \\ 11 &= s \\ s &= 11 \text{ mm} \end{aligned}$$

[4] 12 m

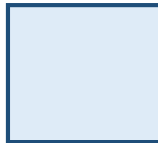


$$A = 144 \text{ m}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{144} \quad 144 &= s^2 \quad \sqrt{s^2} \\ 12 &= s \\ s &= 12 \text{ m} \end{aligned}$$

[5]

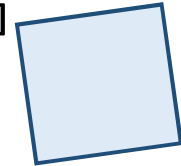


$$A = 289 \text{ m}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{289} \quad 289 &= s^2 \quad \sqrt{s^2} \\ 17 &= s \\ s &= 17 \text{ m} \end{aligned}$$

[6]

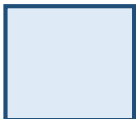


$$A = 361 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{361} \quad 361 &= s^2 \quad \sqrt{s^2} \\ 19 &= s \\ s &= 19 \text{ mm} \end{aligned}$$

[7] 22 cm

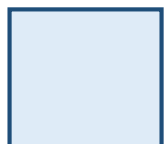


$$A = 484 \text{ cm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{484} \quad 484 &= s^2 \quad \sqrt{s^2} \\ 22 &= s \\ s &= 22 \text{ cm} \end{aligned}$$

[8]

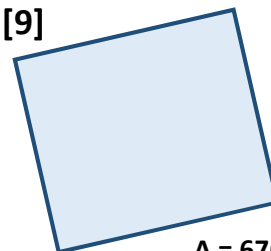


$$A = 529 \text{ m}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{529} \quad 529 &= s^2 \quad \sqrt{s^2} \\ 23 &= s \\ s &= 23 \text{ m} \end{aligned}$$

[9]



$$A = 676 \text{ mm}^2$$

worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{676} \quad 676 &= s^2 \quad \sqrt{s^2} \\ 26 &= s \\ s &= 26 \text{ mm} \end{aligned}$$