

## 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>

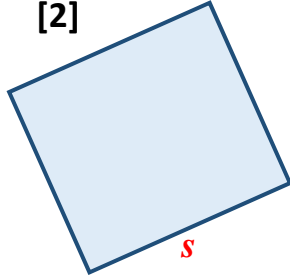
*Use your calculator!*

[1]



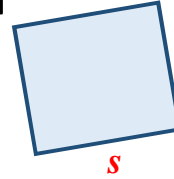
[1]  $A = 9 \text{ cm}^2$

[2]



[2]  $A = 25 \text{ cm}^2$

[3]



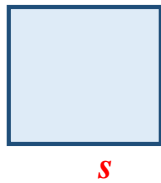
[3]  $A = 49 \text{ cm}^2$

[4]



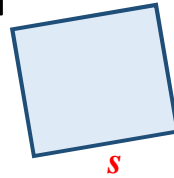
[4]  $A = 64 \text{ m}^2$

[5]



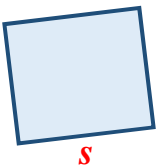
[5]  $A = 169 \text{ m}^2$

[6]



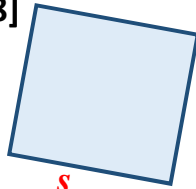
[6]  $A = 225 \text{ m}^2$

[7]



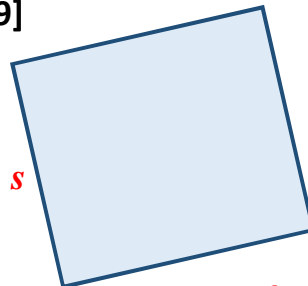
[7]  $A = 324 \text{ mm}^2$

[8]



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

[9]



[9]  $A = 484 \text{ m}^2$

# ANSWERS

## Area (Squares)

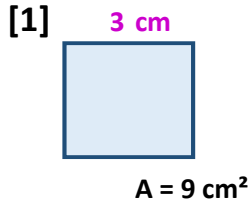
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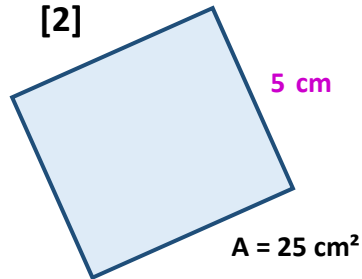
<http://www.learnersgrid.com>

Use your calculator!



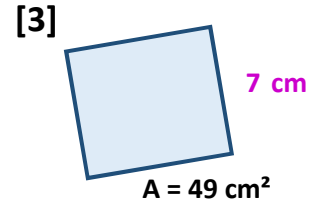
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{9} \quad 9 &= s^2 \quad \sqrt{s^2} \\ 3 &= s \\ s &= 3 \text{ cm} \end{aligned}$$



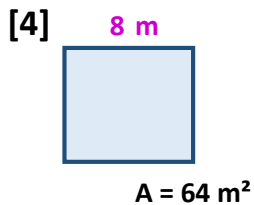
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{25} \quad 25 &= s^2 \quad \sqrt{s^2} \\ 5 &= s \\ s &= 5 \text{ cm} \end{aligned}$$



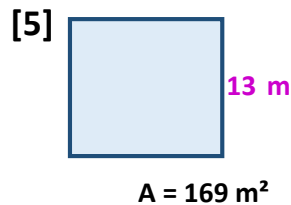
worked solution:

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



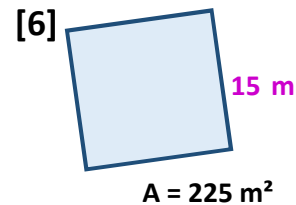
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{64} \quad 64 &= s^2 \quad \sqrt{s^2} \\ 8 &= s \\ s &= 8 \text{ m} \end{aligned}$$



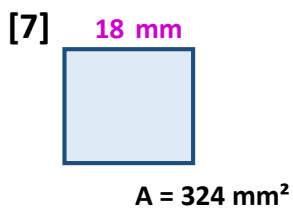
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{169} \quad 169 &= s^2 \quad \sqrt{s^2} \\ 13 &= s \\ s &= 13 \text{ m} \end{aligned}$$



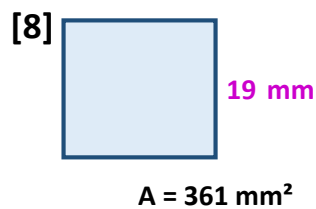
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{225} \quad 225 &= s^2 \quad \sqrt{s^2} \\ 15 &= s \\ s &= 15 \text{ m} \end{aligned}$$



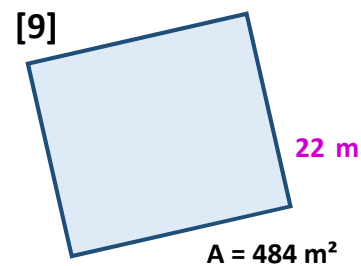
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{324} \quad 324 &= s^2 \quad \sqrt{s^2} \\ 18 &= s \\ s &= 18 \text{ mm} \end{aligned}$$



worked solution:

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



worked solution:

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