

## 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>

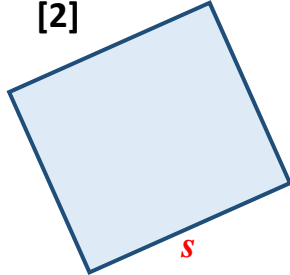
*Use your calculator!*

[1]



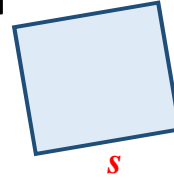
[1]  $A = 1 \text{ m}^2$

[2]



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

[3]



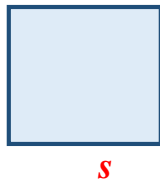
[3]  $A = 25 \text{ cm}^2$

[4]



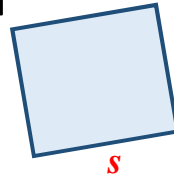
[4]  $A = 36 \text{ m}^2$

[5]



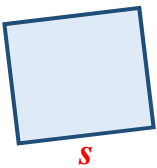
[5]  $A = 121 \text{ m}^2$

[6]



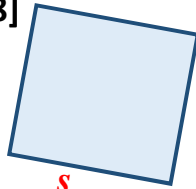
[6]  $A = 169 \text{ cm}^2$

[7]



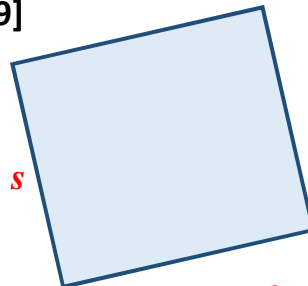
[7]  $A = 256 \text{ mm}^2$

[8]



[8]  $A = 289 \text{ cm}^2$

[9]



[9]  $A = 400 \text{ m}^2$

# ANSWERS

## Area (Squares)

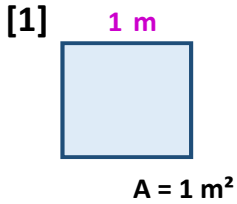
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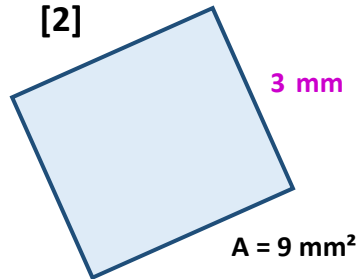
<http://www.learnersgrid.com>

Use your calculator!



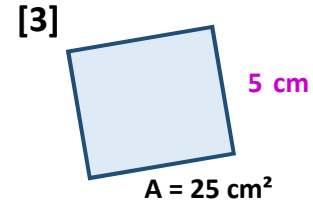
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{1} \quad 1 &= s^2 \quad \sqrt{s^2} \\ 1 &= s \\ s &= 1 \text{ m} \end{aligned}$$



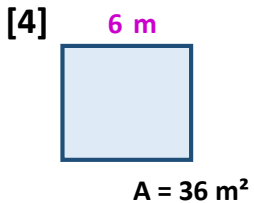
worked solution:

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



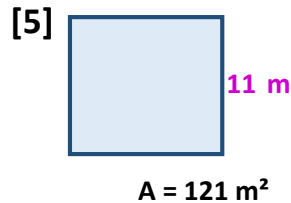
worked solution:

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



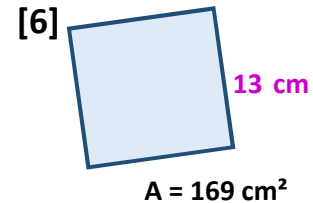
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{36} \quad 36 &= s^2 \quad \sqrt{s^2} \\ 6 &= s \\ s &= 6 \text{ m} \end{aligned}$$



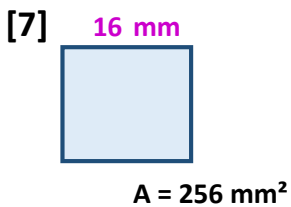
worked solution:

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



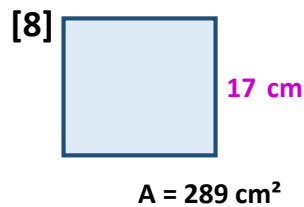
worked solution:

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



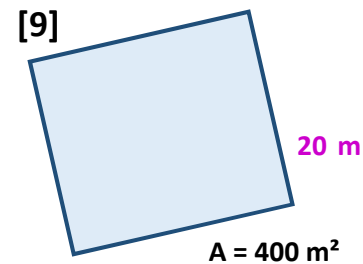
worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{256} \quad 256 &= s^2 \quad \sqrt{s^2} \\ 16 &= s \\ s &= 16 \text{ mm} \end{aligned}$$



worked solution:

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



worked solution:

$$\begin{aligned} A &= s^2 \\ \sqrt{400} \quad 400 &= s^2 \quad \sqrt{s^2} \\ 20 &= s \\ s &= 20 \text{ m} \end{aligned}$$