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.

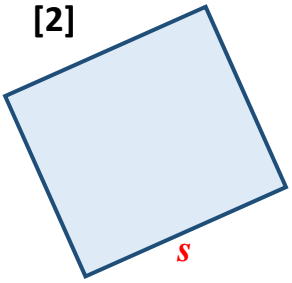
http://www.learnersgrid.com

Use your calculator!

[1]

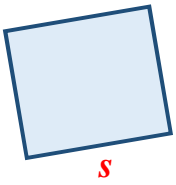
[1] A = 59.3 mm²

[2]



[2] A = 104 cm²

[3]

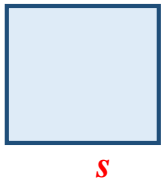


[3] A = 151.3 m²

[4]

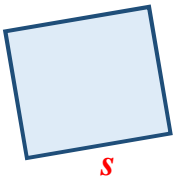
[4] A = 176.9 m²

[5]



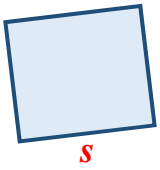
[5] A = 334.9 mm²

[6]



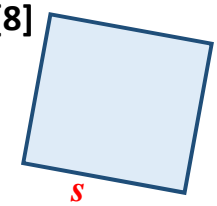
[6] A = 412.1 m²

[7]



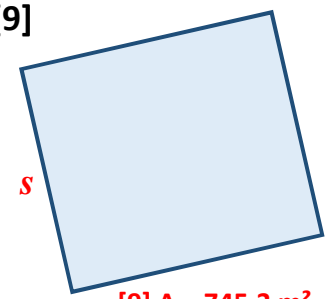
[7] A = 542.9 mm²

[8]



[8] A = 590.5 cm²

[9]



[9] A = 745.3 m²

ANSWERS

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[1] 7.7 mm

A = 59.3 mm²

worked solution:

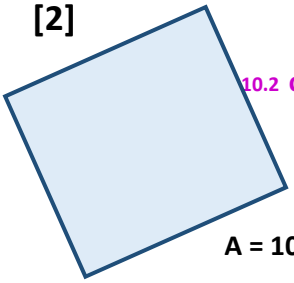
$A = s^2$

$\sqrt{59.3}$ $59.3 = s^2$ $\sqrt{s^2}$

$7.7 = s$

s = 7.7 mm

[2]



A = 104 cm²

worked solution:

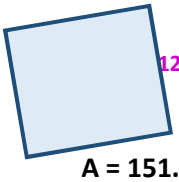
$A = s^2$

$\sqrt{104}$ $104 = s^2$ $\sqrt{s^2}$

$10 = s$

s = 10.2 cm

[3]



A = 151.3 m²

worked solution:

$A = s^2$

$\sqrt{151.3}$ $151.3 = s^2$ $\sqrt{s^2}$

$12 = s$

s = 12.3 m

[4] 13.3 m

A = 176.9 m²

worked solution:

$A = s^2$

$\sqrt{176.9}$ $176.9 = s^2$ $\sqrt{s^2}$

$13.3 = s$

s = 13.3 m

[5]

A = 334.9 mm²

worked solution:

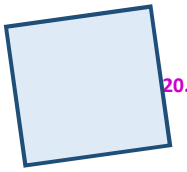
$A = s^2$

$\sqrt{334.9}$ $334.9 = s^2$ $\sqrt{s^2}$

$18.3 = s$

s = 18.3 mm

[6]



A = 412.1 m²

worked solution:

$A = s^2$

$\sqrt{412.1}$ $412.1 = s^2$ $\sqrt{s^2}$

$20.3 = s$

s = 20.3 m

[7] 23 mm

A = 542.9 mm²

worked solution:

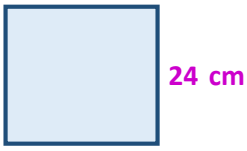
$A = s^2$

$\sqrt{542.9}$ $542.9 = s^2$ $\sqrt{s^2}$

$23 = s$

s = 23.3 mm

[8]



A = 590.5 cm²

worked solution:

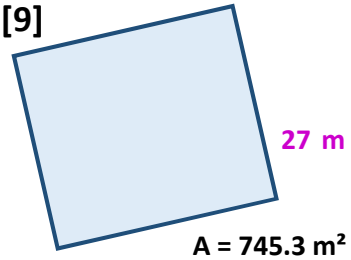
$A = s^2$

$\sqrt{590.5}$ $590.5 = s^2$ $\sqrt{s^2}$

$24 = s$

s = 24.3 cm

[9]



A = 745.3 m²

worked solution:

$A = s^2$

$\sqrt{27.3}$ $745.3 = s^2$ $\sqrt{s^2}$

$27 = s$

s = 27.3 m