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.

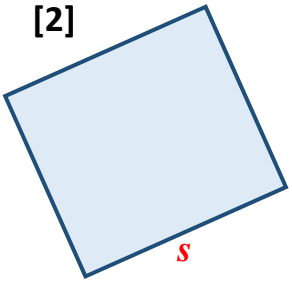
http://www.learnersgrid.com

Use your calculator!

[1]

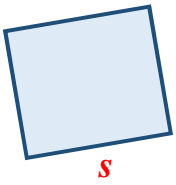
[1] A = 26 m²

[2]



[2] A = 64 cm²

[3]

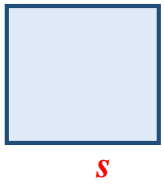


[3] A = 104 mm²

[4]

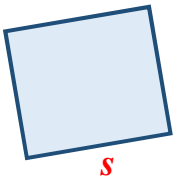
[4] A = 125.4 m²

[5]



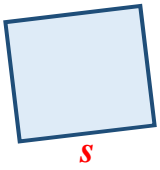
[5] A = 262.4 m²

[6]



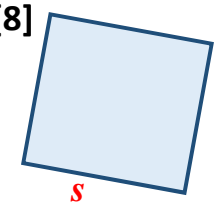
[6] A = 331.2 m²

[7]



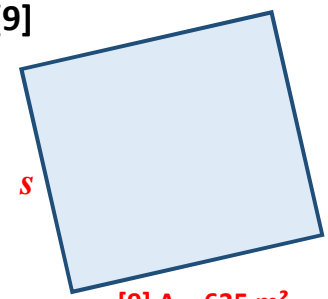
[7] A = 449.4 cm²

[8]



[8] A = 492.8 m²

[9]



[9] A = 635 m²

ANSWERS

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[1] 5.1 m

A = 26 m²

worked solution:

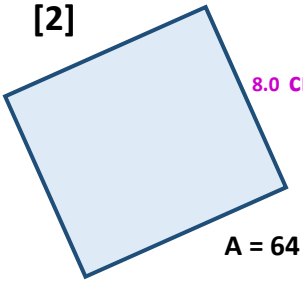
$A = s^2$

$\sqrt{26}$ $26.0 = s^2$ $\sqrt{s^2}$

$5.1 = s$

s = 5.1 m

[2]



A = 64 cm²

worked solution:

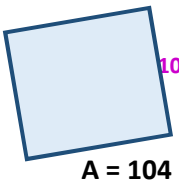
$A = s^2$

$\sqrt{64}$ $64 = s^2$ $\sqrt{s^2}$

$8 = s$

s = 8 cm

[3]



A = 104 mm²

worked solution:

$A = s^2$

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

$10 = s$

s = 10.2 mm

[4] 11.2 m

A = 125.4 m²

worked solution:

$A = s^2$

$\sqrt{125.4}$ $125.4 = s^2$ $\sqrt{s^2}$

$11.2 = s$

s = 11.2 m

[5]

A = 262.4 m²

worked solution:

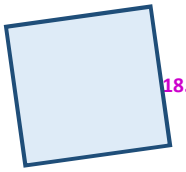
$A = s^2$

$\sqrt{262.4}$ $262.4 = s^2$ $\sqrt{s^2}$

$16.2 = s$

s = 16.2 m

[6]



A = 331.2 m²

worked solution:

$A = s^2$

$\sqrt{331.2}$ $331.2 = s^2$ $\sqrt{s^2}$

$18.2 = s$

s = 18.2 m

[7] 21 cm

A = 449.4 cm²

worked solution:

$A = s^2$

$\sqrt{449.4}$ $449.4 = s^2$ $\sqrt{s^2}$

$21 = s$

s = 21.2 cm

[8]

A = 492.8 m²

worked solution:

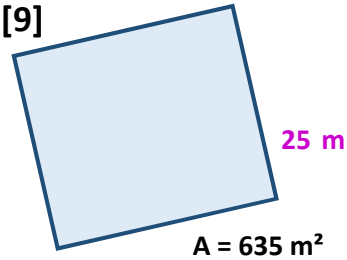
$A = s^2$

$\sqrt{492.8}$ $492.8 = s^2$ $\sqrt{s^2}$

$22 = s$

s = 22.2 m

[9]



A = 635 m²

worked solution:

$A = s^2$

$\sqrt{25.2}$ $635.0 = s^2$ $\sqrt{s^2}$

$25 = s$

s = 25.2 m