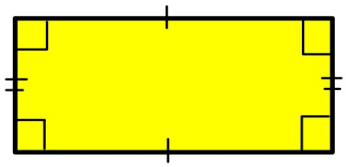
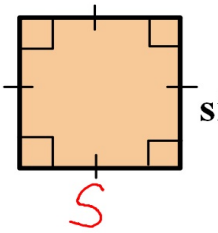
11-1 Area of Rectangles

March 1

std. 10.0



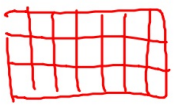
Rectangle
$A = bh$



Square
$A = s^2$

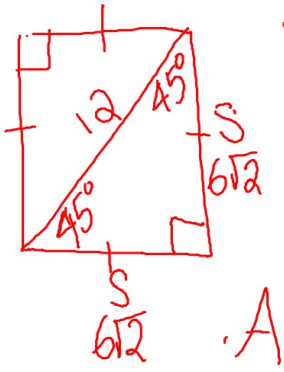
Examples: find the area

1 rectangle with base $2\sqrt{3}$ cm and height 2 cm



$A = bh$
$= 2\sqrt{3} \cdot 2 = 4\sqrt{3}\ cm^2$ $4\sqrt{3}$ sq. cm.

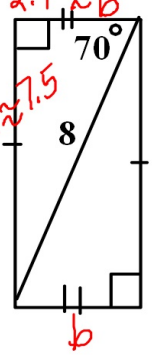
2 square with diagonal 12



$S^2 + S^2 = 12^2$
$2S^2 = 144$
$\sqrt{S^2} = \sqrt{72}$ 8.9
$S = 6\sqrt{2}$ $\sqrt{36 \cdot 2}$ 2·4·9

$A = 6\sqrt{2} \cdot 6\sqrt{2}$
$36 \cdot 2 = 72$ units^2

3



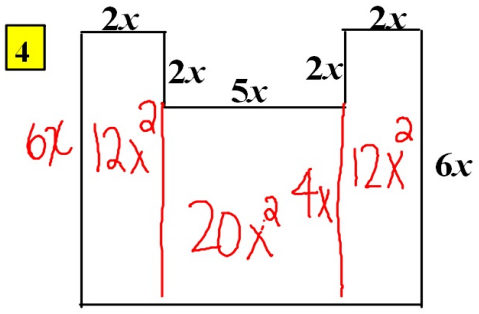
$\cos 70° = \frac{b}{8}$

$b = 8 \cdot \cos 70°$
$b \approx 2.7$

$\sin 70° = \frac{h}{8}$

$h = 8 \cdot \sin 70°$
$A = 20.25\ u^2$

4



$= 44x^2$