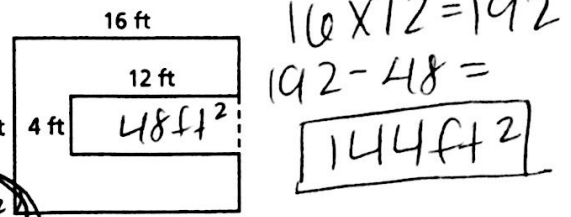
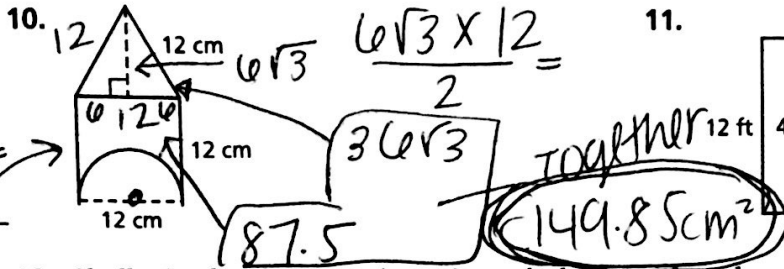


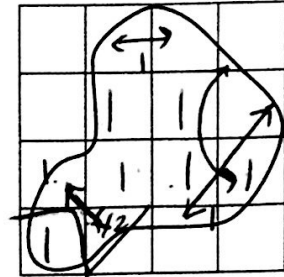
9-3 Composite Figures

Find the shaded area. Round to the nearest tenth, if necessary.

KLU



12. Shelby is planting grass in an irregularly shaped garden as shown. The grid has squares with side lengths of 1 yd. Estimate the area of the garden. Given that grass cost \$6.50 per square yard, find the cost of the grass.



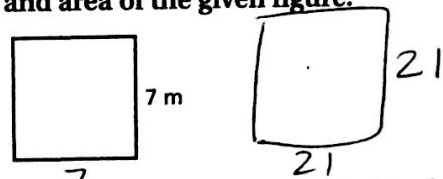
≈ 9 squares
 ≈ 9 square yards
 $6.50 \times 9 = \$58.5$

9-5 Effects of Changing Dimensions Proportionally

Describe the effect of each change on the perimeter and area of the given figure.

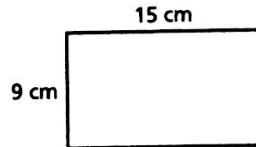
5. The side length of the square is tripled.

P: $\times 3$
 A: $\times 9$



6. The diagonals of a rhombus in which $d_1 = 3$ ft and $d_2 = 9$ ft are both multiplied by $\frac{1}{3}$.

7. The base and height of the rectangle are both doubled.



P: $\times 1/3$
 A: $\times 1/9$

P: $\times 2$
 A: $\times 4$

8. The base and height of a right triangle with base 15 in. and height 8 in. are multiplied by $\frac{1}{3}$.

A:
 P:

9. A square has vertices $(-1, 2)$, $(3, 2)$, $(3, -2)$, and $(-1, -2)$. If you quadruple the area, what happens to the side length? *side lengths $\times 2$*

10. A restaurant sells pancakes in two sizes, silver-dollar and regular. The silver-dollar pancakes have a 4-inch diameter and require $\frac{1}{8}$ cup of batter per pancake. The diameter of a regular pancake is 2.5 times the diameter of a silver-dollar pancake. About how much batter is required to make a regular pancake?

$(2.5)^2 = 6.25$
 $\frac{1}{8} \text{ cup} \times 6.25 = \frac{25}{32} \text{ cup}$

9-6 Geometric Probability

Use the spinner to find the probability of each event.

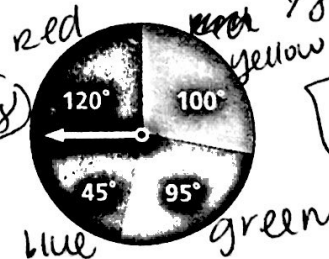
11. the pointer landing on red $\frac{120}{360} = \frac{1}{3}$

12. the pointer landing on red or yellow $\frac{220}{360} = \frac{11}{18}$

13. the pointer landing on green $\frac{95}{360}$

14. the pointer landing on yellow or blue $\frac{29}{72}$

15. A radio station plays 12 commercials per hour. Each commercial is 1 minute long. If you turn on the radio at a random time, find the probability that a commercial will be playing.



$\frac{149}{360}$

$\frac{12}{60} = .2$ or $\frac{1}{5}$