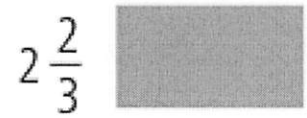
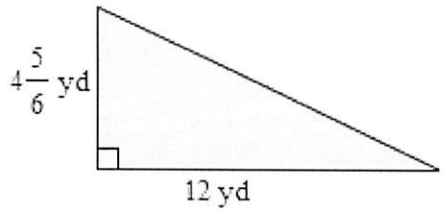
Topic 13 Quiz Review Homework Name _____

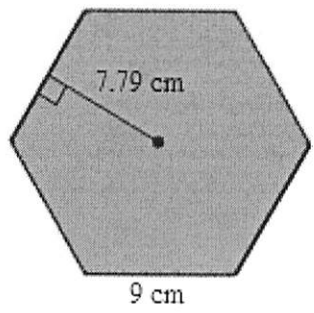
1. Find the base of the rectangle as a fraction in simplest form if the area of the rectangle 12 square units.



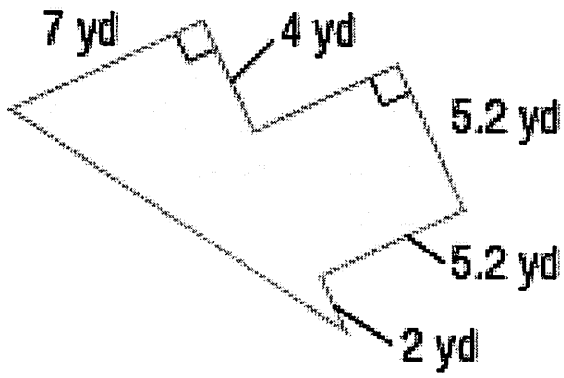
2. Find the area of the right triangle as a fraction in simplest form.



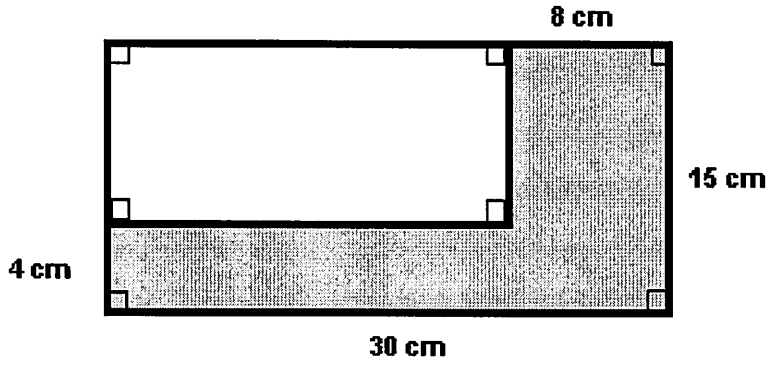
3. Find the area of the regular hexagon to the nearest whole cm.



4. Find the area of the figure. Round to the *nearest tenth.*



5. Find the area of the shaded region.



Topic 13 Quiz Review Homework Name Key

1. Find the base of the rectangle as a fraction in simplest form if the area of the rectangle is 12 square units.

12

$A = b \cdot h$

$A = 12$

$b = ?$

$h = 2\frac{2}{3}$ or $\frac{8}{3}$

$12 = b \cdot \frac{8}{3}$

$\div \frac{8}{3}$

$\frac{12}{1} \div \frac{8}{3} = b$

$\frac{3}{12}{}_{1} \cdot \frac{3}{8}{}_{2} = b$ $\longrightarrow$ $b = \frac{9}{2} = 4\frac{1}{2}$ units

$2\frac{2}{3}$ 

2. Find the area of the right triangle as a fraction in simplest form.

$A = \frac{b \cdot h}{2}$

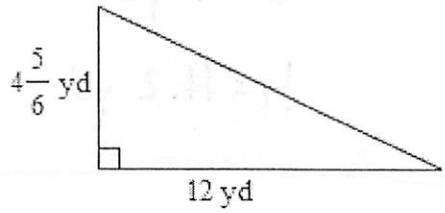
$A = \frac{{}^{2}\cancel{12}}{1} \cdot \frac{29}{\cancel{6}_{1}} = \frac{58}{2}$

$A = ?$

$b = 12$ yd

$h = 4\frac{5}{6}$ yd

$A = 29$ yds^2



3. Find the area of the regular hexagon to the nearest whole cm.

Area 1 Δ

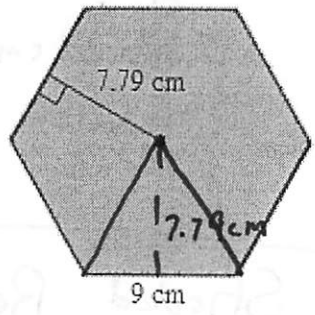
$A = \frac{b \cdot h}{2}$ $A = \frac{9 \cdot 7.79}{2}$

$A = ?$

$b = 9$ cm

$h = 7.79$ cm

$A = 35.055 \times 6\ \Delta$'s



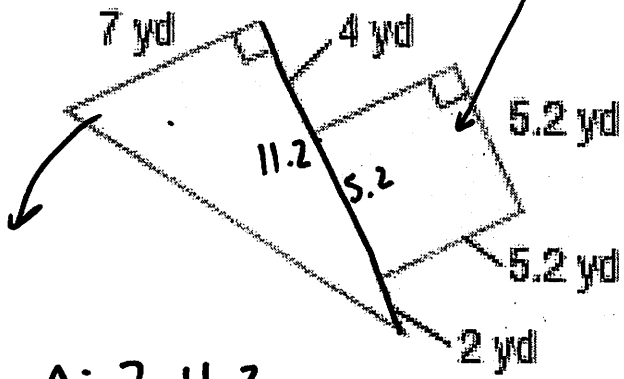
Total Area: $210.33 \approx 210$ cm^2

4. Find the area of the figure. Round to the *nearest tenth.*

$A = b \cdot h$

$A = (5.2\text{ yd})(5.2\text{ yd})$

$A = 27.04\text{ yd}^2$



$A = \frac{b \cdot h}{2}$

$A = ?$

$b = 7\text{ yd}$

$h = 11.2\text{ yd}$

$A = \frac{7 \cdot 11.2}{2}$

$A = 39.2\text{ yd}^2$

Total Area = $66.24 \approx 66.2\text{ yd}^2$

5. Find the area of the shaded region.

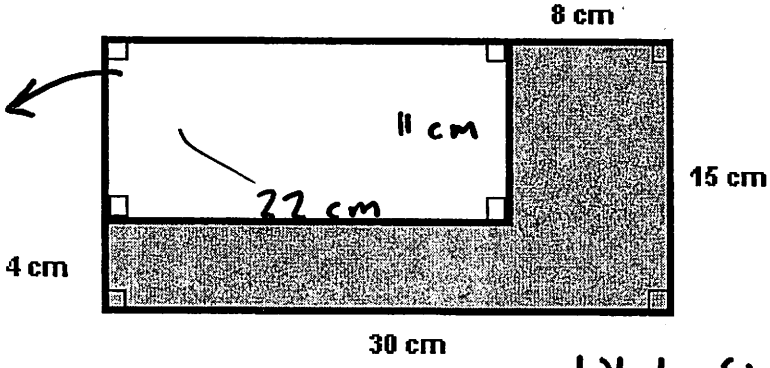
White ▭

$A = b \cdot h$

$A = ?$ $\quad A = 22 \cdot 11$

$b = 22\text{ cm}$ $\quad A = 242\text{ cm}^2$

$h = 11\text{cm}$



Whole Shaded ▭

$A = ?$ $\quad A = 15 \cdot 30$

$b = 30\text{ cm}$ $\quad A = 450\text{ cm}^2$

$h = 15\text{cm}$

Shaded Region

$450 - 242 = 208\text{ cm}^2$