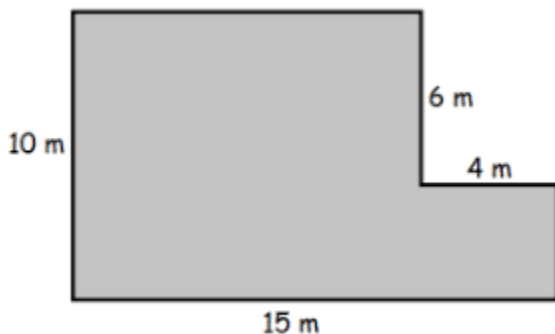
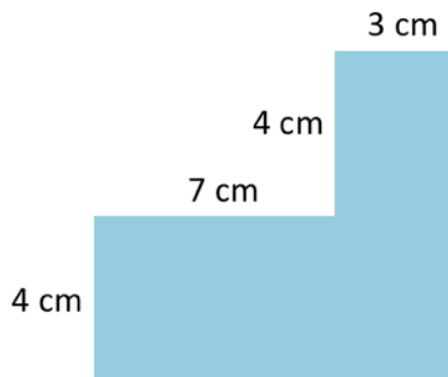
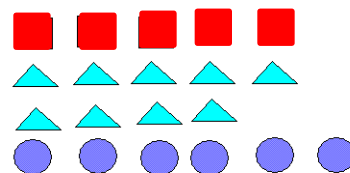


Math Concepts Problem Set 22

Name _____

Assigned Thursday 3/5, due Friday 3/20 (2 weeks due to conferences).

1. Find the area of each figure below.**a)****b)****2. a)** What percent of the shapes are squares?**b)** What percent of the shapes are circles?**c)** What is the ratio of triangles to squares?**3. Convert each mixed number to an improper fraction greater than one.**

a) $3\frac{1}{4}$

b) $2\frac{7}{9}$

c) $4\frac{11}{20}$

d) $1\frac{2}{23}$

e) $17\frac{3}{10}$

4. Convert each fraction to a mixed number.

a) $\frac{19}{2}$

b) $\frac{25}{8}$

c) $\frac{38}{5}$

d) $\frac{65}{10}$

e) $\frac{711}{100}$

5. Simplify each fraction.

a) $\frac{15}{25}$

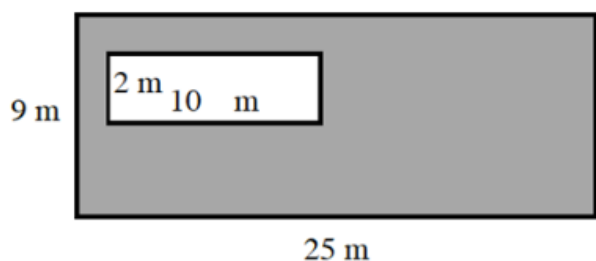
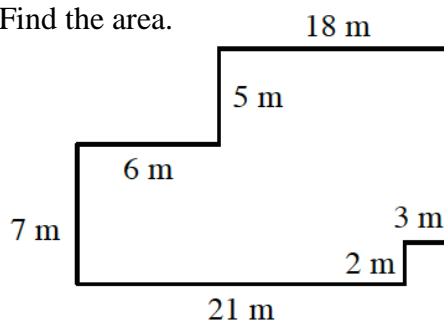
b) $\frac{10}{36}$

c) $\frac{12}{36}$

d) $\frac{14}{42}$

e) $\frac{170}{10}$

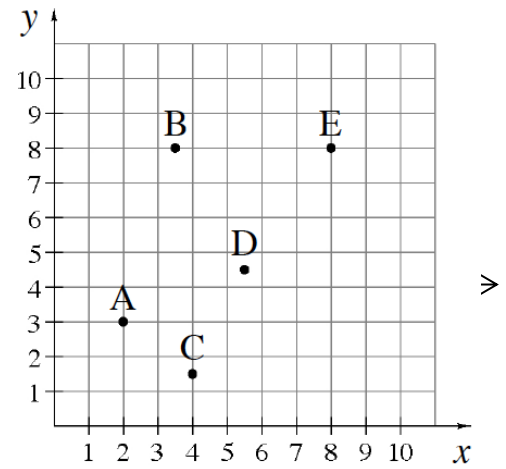
6. a) $-3 + -4 + -2$ **b)** $-10 + 6 + -5$ **c)** $8 + -11 + -7$ **d)** $-9 + -9 + -9 + -9$

7. a) Find the shaded area.**b)** Find the area.

8. Write the points on the graph as ordered pairs.

a) $A = (\quad , \quad)$ b) $B = (\quad , \quad)$ c) $C = (\quad , \quad)$

d) $D = (\quad , \quad)$ e) $E = (\quad , \quad)$



9. The first four multiples of 7 are 7, 14, 21 and 28.

a) What are the first six multiples of 9?

b) What are the first six multiples of 12?

c) What is the least common multiple of 9 and 12?

d) What is the greatest common factor of 9 and 12?

10. Simplify each algebra expression.

a) $n + 6 + n + 9 + n$

b) $3y + y + 5y + y$

c) $4x - 2x - 3x$

d) $m - 9m$

-----Please show your **work** for #11 - #14.-----

11. Evaluate when $x = 4$ and $y = 10$.

a) $5xy$

b) $x + 3y$

c) xy^2

d) $x + y(y - x)$

12. a) $7.62 + 8 + 1.3$

b) $5.8 \div 4$

c) $7.11 - 0.8$

d) $(711)(128)$

13. a) $2\frac{2}{5} + 1\frac{7}{8}$

b) $2\frac{2}{3} - 1\frac{5}{9}$

c) $7\frac{1}{8} + 3\frac{7}{10}$

d) $7\frac{1}{2} - 3\frac{1}{3}$

14. Your uncle, who really likes to travel, has visited 35 of the 50 states in our country. What percent of the United States has he visited?

