Math Concepts Problem Set 14
Name
Assigned Thursday 12/14, due Friday 1/10/20 (Three weeks due to Winter Break)
No Work Shown, No Credit Given
Period $\qquad$
Problems \#1-\#9 can be completed on this paper. The work for \#10-\#14 needs to be attached on a separate piece of paper.


1 Label the following numbers on the line above in the appropriate locations.
A) $1 \frac{3}{4}$
B) $5 \%$
C) 0.5
D) $\frac{1}{3}$
E) 0.03
F) $180 \%$
2.


Use the number line to find your answers.
a) $8+-3$
b) $-4+-4$
c) $-6+4$
d) $-5+-1$
3. a) What is the opposite of 7 ?
b) What is the opposite of -8 ?
c) $-(-(5))=$
d) $-(-(-3))=$
4. Solve the number puzzles below.
a) If Kendra adds 9 to her number, she gets 6 . What is her number?
b) If Brad starts at -5 on a number line and ends up at -8 , then many units did he move?
c) If I moved up 8 and then moved down 8 , what can you tell me about my ending position?
5. Plot the following points: $(0,0),(1,3),(5,3)$, and $(4,0)$. Connect your points.
What is the name of your shape?
6. Complete Dylan's ratio table.



7. Make a portion web for each number. | 50 | 0.7 | $7 \%$ | 0.314 | $130 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
8. The first five multiples of 8 are $8,16,24,32,40$.
a) List the first five multiples of 6 .
b) What is the least (smallest) common multiple of 6 and 8 ?
c) What is the least (smallest) common multiple of 9 and 12 ?
9. a) What is the ratio of stars to diamonds?
b) What is the ratio of diamonds to total shapes?
c) What percent of the shapes are stars?

-------------The work for \#10 - \#14 needs to be attached on a separate paper.------------
10. a) $54 \frac{3}{4}+45 \frac{3}{5}$
b) $607 \frac{2}{3}+32 \frac{5}{9}$
c) $251 \frac{2}{3}-188 \frac{1}{6}$
d) $789 \frac{5}{8}-400 \frac{1}{12}$
11. a) $34.56-1.8$
b) $92+109.8$
c) $7.95 \cdot 5$
d) $(234)(56)$
12. a) $19^{2}$
b) $5^{3}$
c) $2^{5}$
d) $10^{4}$
13. Which is greater, $\frac{3}{4}$ or $\frac{18}{24}$ ? Show why.
14. Find the area of each compound shape.
a)

b)

