

Math Concepts Problem Set 12

Name _____

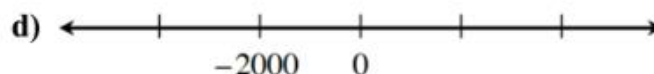
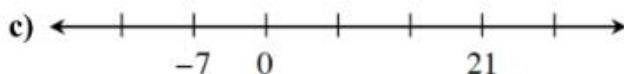
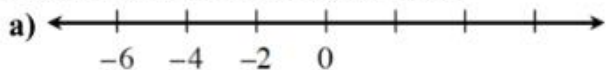
Assigned Thursday 12/5, due Friday 12/13

No Work Shown, No Credit Given

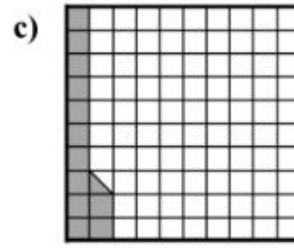
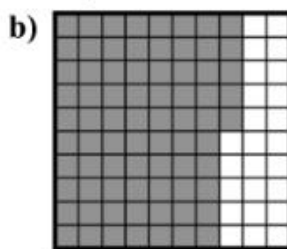
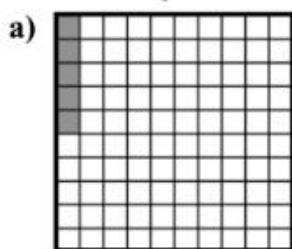
Period _____

Problems #1-#6 can be completed on this paper. The work for #7-#14 needs to be attached on a separate piece of paper.

1. You can see in the examples below that not all number lines increase by one unit from mark to mark. Fill in the missing numbers.



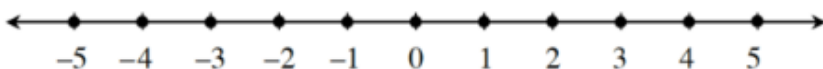
2. The following representations have been drawn to represent portions of a 100% block. Write each of the portions as a percent, a fraction, and a decimal.



3. Lucas' frog is sitting at -2 on the number line.

a) His frog hops 4 units to the right, 6 units to the left, and then 8 more units to the right. Where does the frog land?

b) What number is the opposite of where Lucas' frog landed?



4. a) Plot the points listed below on the graph at right.. Then connect them in the order given and connect point D to point A .

$A(2, 3)$, $B(3, 7)$, $C(7, 7)$, $D(8, 3)$

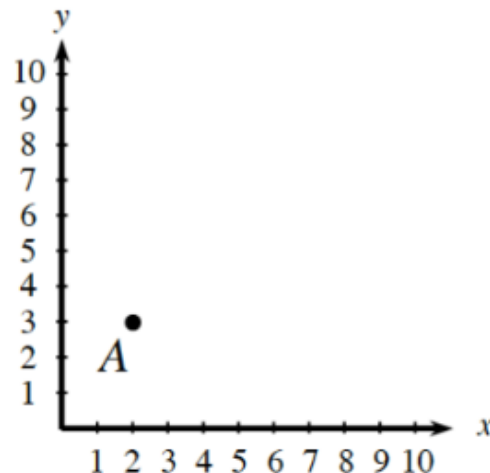
b) What is the name of the shape that you drew?

5. Convert each mixed number to an improper fraction.

a) $1\frac{3}{4}$ b) $10\frac{1}{2}$ c) $3\frac{5}{7}$ d) $8\frac{2}{5}$

6. Convert each fraction to a mixed number.

a) $\frac{12}{5}$ b) $\frac{13}{2}$ c) $\frac{20}{3}$ d) $\frac{22}{4}$



-----The work for #7-14 needs to be completed on another piece of paper.-----

7. a) $\frac{3}{4} + \frac{1}{6}$

b) $\frac{5}{8} - \frac{1}{4}$

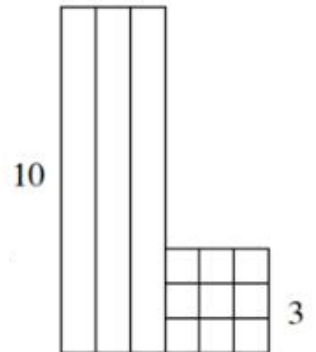
c) $\frac{2}{3} + \frac{5}{9}$

d) $\frac{3}{8} - \frac{1}{12}$

8. The diagram at right is made up of Base Ten Blocks.

a) Find the area of the shape.

b) Find the perimeter of the shape.



9. Suzie wrote $134\% = \frac{134}{200}$. Is she correct? Why or why not?

10. Use the Distributive Property to *rewrite* each of the following products as sums, and then calculate the value, as shown in the example below.

Example: $4(317) = 4(300) + 4(10) + 4(7) = 1200 + 40 + 28 = 1268$

a) $8(420)$

b) $9(502)$

c) $5(2222)$

11. Add or subtract the following decimals. *Show your work.*

a) $3.14 + 14 + 12.8$

b) $12.34 - 3.3$

c) $0.456 + 45.6$

d) $11 - 0.72$

12. Given the numbers 29% and 0.3, *explain* which number is larger by using words and/or pictures.

13. Find three fractions that are equivalent to $\frac{6}{20}$.

14. Make a portion web for each number.

a) 7%

b) 0.1

c) $\frac{11}{25}$

d) $\frac{1}{20}$