

Name _____

1 Write $\frac{1}{3}$ in decimal notation.

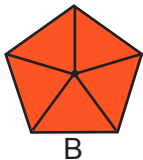
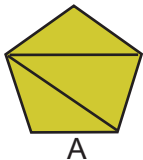
2 $-\frac{5}{12} + \frac{1}{6} =$

3 Express the ratio in simplest form:
\$3.20 to 80¢ to \$4

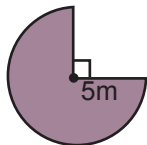
4 Solve for m: $7m - 15 = -57$

5 The sum of the interior angles of a pentagon is 540° . Match the equation to the pentagon that expresses this sum correctly.

- a) $3(180^\circ) = 540^\circ$
b) $5(180^\circ) - 360^\circ = 540^\circ$



6 Find the perimeter of this shape.
Use $\pi \approx 3.14$.



7 Expand and simplify:

$$8(z + 3) - 3(5 - z)$$

8 Complete the table for the equation.

$$y = x(x - 1)$$

x	-4	-2	0	2	4
y					

9 Rate the probability of these events using a scale of 0 to 1.

- a) Drawing one card from a deck of 52 cards and getting a spade.
b) Tossing two six-sided dice and getting a total of 13.

10 $4xy^3 \cdot 3x^3y^5 =$

11 Write the answer in scientific notation.
 $(5 \cdot 10^4)(6 \cdot 10^3) =$

12 \$16 is 20% of an amount we will call x.
Finish the calculation to find the value of x.

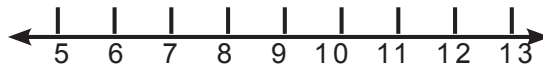
20% of x is 16

$$0.2x = 16$$

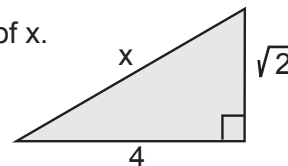
$$x = \underline{\hspace{2cm}}$$

\$16 is 20% of $\underline{\hspace{2cm}}$

13 Use the number line to graph the inequality:
 $x - 4 > 5$

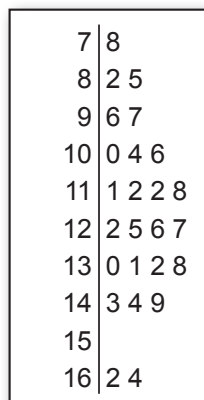


14 Find the length of x.



- 15) What happens to the area of a square whose sides are doubled in size from the original?
- 16) Cort gets paid \$50 to come to a house plus \$100 per hour to work on a computer. Express his rate for h hours at a house.
- 17) The first number in a sequence is 50. The rule for the sequence is to divide by 5. What is the fifth number in the sequence?

- 18) This Stem-and-Leaf plot shows a set of pulse rates from 25 students after completing a 5-minute step test.



For this data what is:

- a) the mode?
b) the median?

- 19) What is the minimum number of candies that can be shared equally among either 8 or 12 friends?

20) $\frac{5}{6} \cdot \frac{3}{5} =$

- 21) The chemical symbol for sucrose is $C_{12}H_{22}O_{11}$. Which is the larger ratio in sucrose?

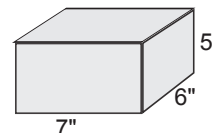
carbon to hydrogen

hydrogen to carbon

- 22) Write an example of the Commutative Property of Addition using x and y .

- 23) Name two ways in which a trapezoid and a rectangle are the same.

- 24) a) Name the shape.

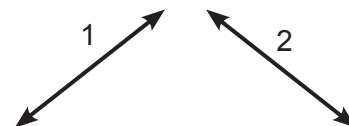


- b) Calculate the surface area.

25) $\frac{a}{3} + \frac{a}{3} =$

- 26) Write the slope description for each line.

positive
negative
undefined
zero



- 27) If the mean of a set of scores is 15, does 15 have to be one of the scores? How do you know?