

Name: _____

Write all answers on the lines provided.

There are 10 roses and 14 sunflowers in a garden. Write a ratio for the statements below:

1. Roses to sunflowers _____ 2. Sunflowers to total flowers _____
3. Roses to total flowers _____

Find the unknown value in the proportion. (*Hint: Cross products*)

4. $\frac{n}{6} = \frac{51}{102}$ _____

5. $\frac{2}{4} = \frac{8}{c}$ _____

6. $\frac{7}{5} = \frac{q}{3}$ _____

7. $\frac{10}{8} = \frac{x}{10}$ _____

8. The Crayola Crayon Company can make 2400 crayons in 4 minutes. How many crayons can they make in 15 minutes?

9. The Bigtown football team outscored its opponents 5:2 last season. If their opponents scored 38 points, how many points did Bigtown score?

10. Determine if the following ratios form a proportion. Write yes or no on the line next to each ratio.

a. $\frac{10}{35} = \frac{8}{28}$ _____

b. $\frac{2}{5} = \frac{8}{20}$ _____

c. $\frac{4}{7} = \frac{12}{21}$ _____

Determine the mean, median, mode, and range of the data sets below.

35, 56, 34, 44, 52, 12, 34, 45

Mean = _____ Median = _____ Mode = _____ Range = _____

5, 5, 6, 3, 5, 4, 3, 2, 6

Mean = _____ Median = _____ Mode = _____ Range = _____

Solve

1.) 8^3 _____ 2.) 6^0 _____ 3.) 11^2 _____ 4.) 5^1 _____

Solve

1.) $(6 - 3 + 1 + 2) \div (5 - 3 + 1) =$ _____ 2.) $(5 \times 1) + 3^2 - 2$ _____

3.) $8 \times (8 - 8) \div 8$ _____ 4.) $2 \div 1 + 2 + 9 \div 9 =$ _____

Solve and SHOW YOUR WORK

1.) You can buy 3 apples at the Quick Market for \$1.26 or you can buy 5 of the same apples at Stop and Save for \$1.20. Which place is the better buy? _____

2.) The bakers at Healthy Bakery can make 270 bagels in 2 hours. How many bagels can they bake in 20 hours? _____

3.) A ferris wheel can accommodate 65 people in 20 minutes. What is the rate per hour? How many people can ride the ferris wheel in 4 hours? _____

4.) Write the unite rate: \$4.50 for 10 muffins _____

5.) Write the unit rate: \$12.35 for 13 cans _____

Solve

1.) $\frac{4}{9}y - 2 = 6$ _____

2.) $x - 4 = 8$ _____

3.) $\frac{c}{5} = 10$ _____

4.) $m + 2 = 11$ _____

5.) $2q + 8 = 12$ _____

6.) $1.5x + 10 = 32.5$ _____

Write the following as a decimal.

1.) 0.342% _____

2.) 1.34% _____

3.) 13% _____

Write the following as a percent.

- 1.) $\frac{9}{20}$ _____ 2.) 28 _____ 3.) .18 _____

Write the following as a fraction.

- 1.) 80% _____ 2.) 25% _____ 3.) 0.6 _____

Solve

1.) 18 is 30% of what number? _____

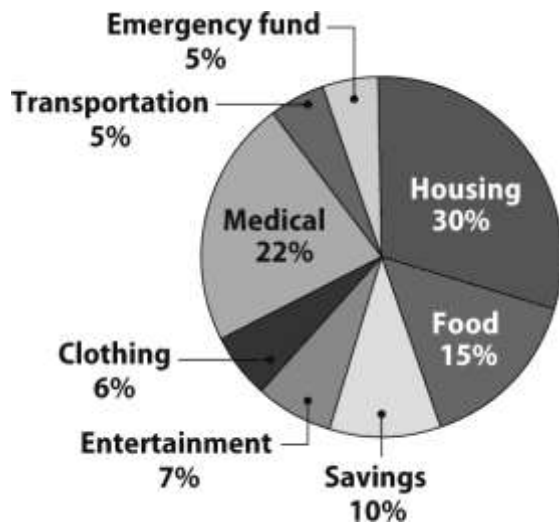
2.) 63 is 21% of what number? _____

3.) What percent of 80 is 20? _____

4.) What number is 20% of 75? _____

5.) Mary took 20 shots at her basketball game and made 15. What percent did she miss? _____

6.) The Jenkins family's monthly budget is shown in the circle graph. The family has a monthly income of \$4,800. How much money do they spend on transportation each month?

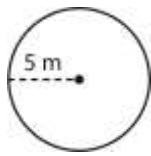


Simplify each expression. Circle your answer.

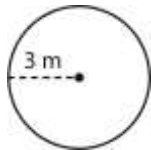
1.) $-34 + -28$	2.) $-95 + 47$	3.) $-8 + 8$
4.) $12 - 13$	5.) $-1 - (-11)$	6.) $-55 - (-55)$
7.) $-7 \times (-8)$	8.) 12×12	9.) $9 \times (-5)$
10.) $81 \div (-9)$	11.) $-12 \div (-4)$	12.) $-18 \div 3$
13.) $0 - (-75)$	14.) $18 + (-32)$	15.) $-21 + (-16)$
16.) $-24 + (-99) + 18$	17.) $-22 + (-40) - (-5)$	18.) $17 - (-5) + 48$

Geometry Review (round your answer to the nearest tenth)

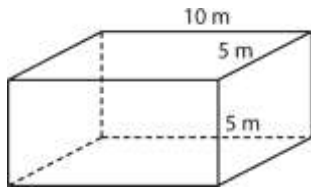
1. What is the circumference of the circle below? Use 3.14 for π .



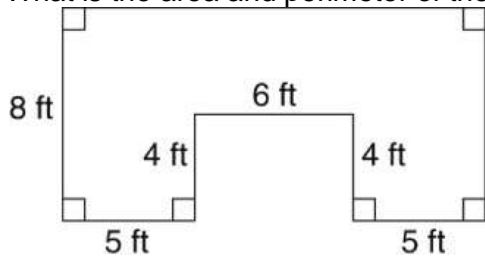
2. What is the area of the circle below? Use 3.14 for π .



3. What is the surface area of the rectangular prism below?



4. What is the area and perimeter of the shape below?



Area _____ Perimeter _____

5. A scale drawing for a rectangular parking lot measures 6 cm by 12 cm. The scale is 5 cm: 25 m. Find the area of the parking lot.