

**6.3**

Change each decimal to its simplified fraction equivalent. Show all steps of your work.

a) 0.042

b)  $0.\overline{36}$

**6.4**

With the denominator given, write one fraction that is close to, but larger than, the given fraction and one fraction that is close to, but smaller than, the given fraction.

larger

smaller

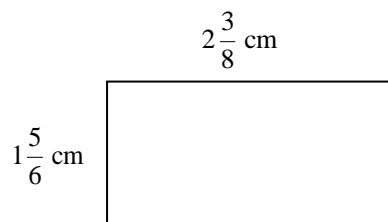
a)  $\frac{2}{5}$ , denominator 180

b)  $\frac{1}{6}$ , denominator 72

**7.1**

Determine the perimeter and area of the rectangle.

Show your work.



Perimeter: \_\_\_\_\_

Area: \_\_\_\_\_

**7.2**

Determine the sale price of a chair originally priced at \$280 marked 15% off. Show two distinct arithmetic methods.

Method I



Method II

**7.3**

Kiley has  $\frac{7}{8}$  cups of sugar and a cookie recipe calls for  $\frac{1}{4}$  cups. How many full recipes can she make and how much sugar will she have left over?

- A. 4 recipes and  $\frac{1}{2}$  cup of sugar left over
- B. 3 recipes and  $\frac{1}{8}$  cup of sugar left over
- C. 7 recipes and  $\frac{1}{8}$  cup of sugar left over
- D. 3 recipes and  $\frac{1}{2}$  cup of sugar left over
- E. 4 recipes and  $\frac{1}{4}$  cup of sugar left over

**8.1**

At Riverdale Middle School,  $\frac{1}{6}$  of the students are in the band. Two out of every three students in the band are girls. The strip diagram shown represents all students in the school. Divide and label the rectangle according to the information given.



- a) The number of boys in the band is \_\_\_\_\_ times the number of girls in the band.
- b) What fraction of the students who play in the band are boys? \_\_\_\_\_
- c) What fraction of the students at Riverdale are boys who play in the band? \_\_\_\_\_
- d) The number of girls in the band is \_\_\_\_\_ times the number of students in the school.

**8.2**

Three construction crews worked on a repaving project. Crew A completed one third as much as Crew B. Crew C completed twice as much as Crew B. If they repaved 12 miles of highway, how many miles did Crew B complete?

- A. 2.4 miles
- B. 4 miles
- C. 3 miles
- D. 3.6 miles
- E. 1.2 miles

**9.2**

A child says that the two situations below would give the same “chocolatey-ness,” since “Each way has one more spoonful of chocolate sprinkles.” Do they?

I 3 spoonfuls of chocolate sprinkles on 2 scoops of vanilla ice cream

II 4 spoonfuls of chocolate sprinkles on 3 scoops of vanilla ice cream

Amount of chocolate sprinkles per scoop of ice cream in I: \_\_\_\_\_

Amount of chocolate sprinkles per scoop of ice cream in II: \_\_\_\_\_

Which situation is more “chocolatey?” Circle your answer: I      II

If you had 17 scoops of ice cream and you wanted to match the “chocolatey-ness” of situation II, show the use of the unit ratio to determine the number of spoonfuls of sprinkles you would need.

**9.3**

Travis’ rent is now \$864. That is 20% more than his rent last year. What was his rent last year?

Make a strip drawing to illustrate this problem. Include labels and numbers as appropriate.

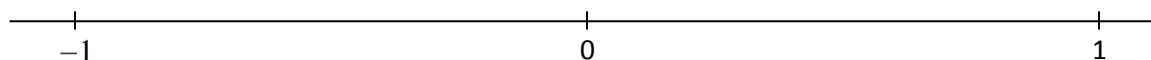
Set up a proportion that could be used to solve this problem.

Answer: \_\_\_\_\_

**10.1**

Place these numbers correctly on the number line given.

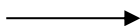
$$\frac{121}{240}, -\frac{60}{79}, -0.25, \frac{205}{300}, -\frac{9}{32}, \frac{120}{241}$$



**10.4**

Show how to use open (positive) and shaded (negative) chips to model the following:

A.  $4 + (-6)$



Answer



B.  $5 - (-2)$

