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|--------------------|--|
| Chapter 1 | Numerical Expressions and Factors |
| Date: | 1.1 Whole Number Operations |
| Essential Question | How do you know which operation to choose when solving a real life problem? |
| Review | <p>Find the value of the expression. Use estimation to check your answer.</p> <p>1) $1745 + 682$ $= 2,427$</p> <p>2) $912 - 799$ $= 113$</p> <p>3) 42×118 $= 4,956$</p> |

**Vocab
Chart**

| | | |
|-----------------------|-------------------|--|
| Addition | sum | $a + b$ |
| Subtraction | difference | $a - b$ |
| Multiplication | product | $a(b)$ $a \cdot b$ |
| Division | quotient | $a \div b$ $b \overline{)a}$ $\frac{a}{b}$ |

| add | subt | mult | div |
|--|--|---|---|
| sum total altogether in all increased by | difference less than fewer than many more minus decrease left over increase | product times double triple of each twice | quotient divide many times more equally ratio evenly average half |

a partner. The double bar graph shows the history of a citywide

y.

1. a. What is the total amount of trash collected from 2010 to 2013?

b. How many more pounds of recyclables were collected in 2013 than in 2010?

c. How many times more recyclables were collected in 2012 than in 2010?

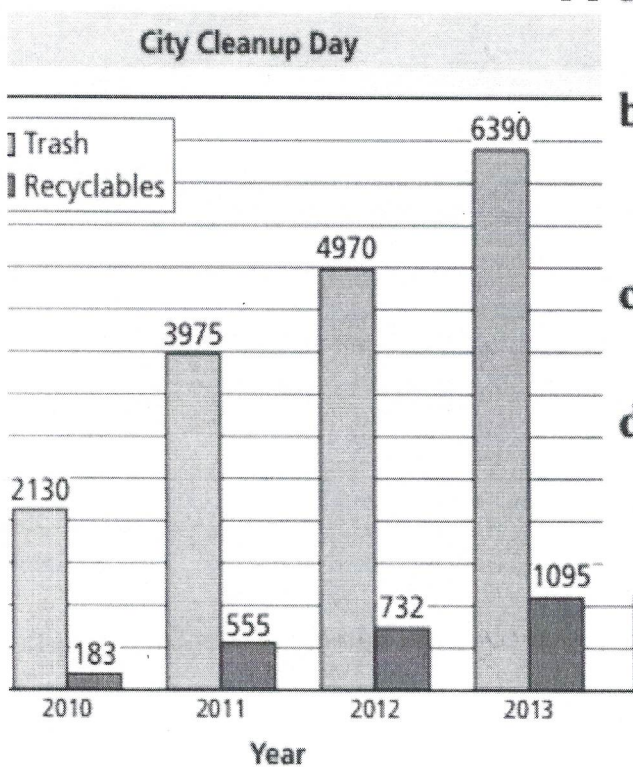
d. The amount of trash collected in 2014 is estimated to be twice the amount collected in 2011. What is that amount?

a) $2130 + 3975 + 4970 + 6390 = 17,465$ pounds

b) $1095 - 183 = 912$ pounds

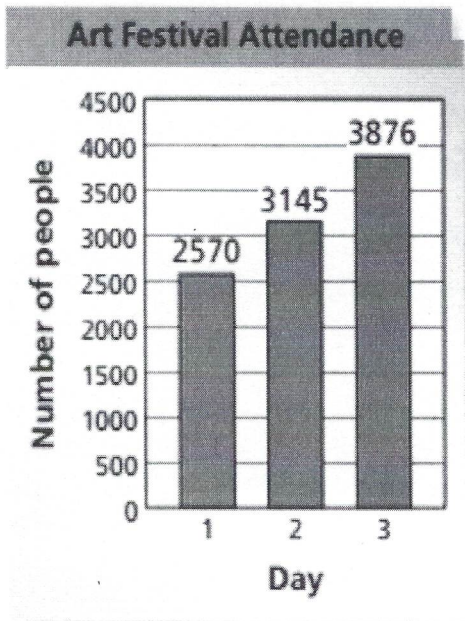
c) $732 \div 183 = 4$ times more

d) $555 \times 2 = 1110$ pounds



2. The bar graph shows the attendance at a three-day art festival.

a. What is the total attendance for the art festival?



$$\begin{array}{r} 111 \\ 2570 \\ 3145 \\ + 3876 \\ \hline 9591 \end{array}$$

9,591 people

b. What is the increase in attendance from Day 1 to Day 2?

$$\begin{array}{r} 10 \\ 2 \cancel{1}4 \\ 3145 \\ - 2570 \\ \hline 575 \end{array}$$

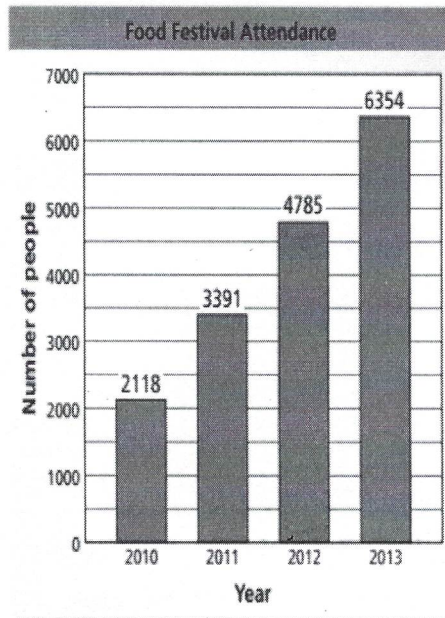
575 more people attended on Day 2.



Practice and Problem Solving

The bar graph shows the attendance at a food festival. Write an expression you can use to answer the question. Then find the value of your expression.

8. What is the total attendance at the food festival from 2010 to 2013?
9. How many more people attended the food festival in 2012 than in 2011?
10. How many times more people attended the food festival in 2013 than in 2010?
11. The festival projects that the total attendance for 2014 will be twice the attendance in 2012. What is the projected attendance for 2014?



- 8) $2118 + 3391 + 4785 + 6354 = 16,649$ people
- 9) $4785 - 3391 = 1,394$ more people
- 10) $6354 \div 2118 = 3$ times more people
- 11) $4785 \times 2 = 9,570$ people

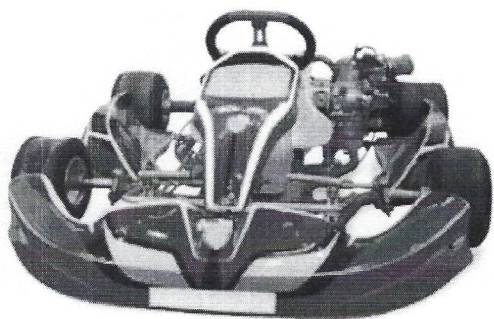
Note Page

Vocabulary Write each number in the division problem shown next to the correct term.

divisor: 34 $34 \overline{) 884}^{26}$

dividend: 884

quotient: 26



You make 24 equal payments for a go-kart. You pay a total of \$840. How much is each payment?

$$\begin{array}{r} 35 \\ 24 \overline{) 840} \\ \underline{-72} \\ 120 \\ \underline{-120} \\ 0 \end{array}$$

Use estimation to check.

$$850 \div 25 = 34$$

Answer: \$35

Note Page. You will need to do your calculations in your composition book.

Find the value of the expression. Use estimation to check your answer.

4) $234 \div 9 = \underline{26}$ 5) $\frac{986}{58} = \underline{17}$ 6) $840 \div 105 = \underline{8}$

7) Find the quotient of 9920 and 320. 31

Complete this problem in your composition book.



A 301-foot-high swing at an amusement park can take 64 people on each ride. A total of 8983 people ride the swing today. All the rides are full except for the last ride. How many rides are given? How many people are on the last ride?

$$\begin{array}{r} 140 \text{ R}23 \\ 64 \overline{) 8983} \\ \underline{-64} \\ 258 \\ \underline{-256} \\ 23 \end{array}$$

Answer: 141 rides were given, 23 people were on the last ride.

Complete this problem in your composition book.

The bakery just got 8740 pounds of flour delivered. They use 26 pounds of flour each day. How many full days will the flour last?

$$\begin{array}{r} 336 \\ 26 \overline{) 8740} \\ \underline{-78} \\ 94 \\ \underline{-78} \\ 160 \\ \underline{-156} \\ 4 \end{array}$$

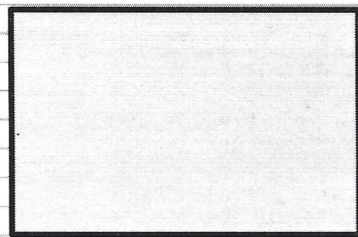
Answer: 336 days

Note Page. You will need to do your calculations in your composition book.

$$8) \frac{6096}{30} = \underline{203} \frac{1}{5} \qquad 9) 45691 \div 28 = \underline{1631} \frac{23}{28}$$

$$10) 3215 \div 430 = \underline{7} \frac{41}{86}$$

Note Page.



5 in.

7 in.

What is the perimeter and area of the shape above?

$$P = 7 + 7 + 5 + 5 = 24 \text{ in.}$$

$$A = 7 \times 5 = 35 \text{ in.}^2$$