

Topic 4
Reteaching

Set F, pages 98–100

Find $839 \div 4$.

Estimate first. $800 \div 4 = 200$.

$$\begin{array}{r} 209 \text{ R}3 \\ 4 \overline{)839} \\ \underline{-8} \\ 03 \\ \underline{-0} \\ 39 \\ \underline{-36} \\ 3 \end{array}$$

Check: 209×4

$$\begin{array}{r} 209 \\ \times 4 \\ \hline 836 \\ + 839 \\ \hline 839 \end{array}$$

The quotient 209 R3 is close to the estimate, 200. The answer is reasonable.

Set G, pages 102–104

Determine all the factor pairs for 12.

Factors are numbers you multiply to give a particular product. Two factors form a factor pair.

Shown below are factor pairs for 12.

$$\begin{array}{l} 1 \times 12 = 12, \\ 2 \times 6 = 12, \\ 3 \times 4 = 12 \end{array}$$

1 and 12, 2 and 6, 3 and 4 form factor pairs.

Each of these factor pairs gives the product 12.

Remember that you sometimes need to write a zero in the quotient when you divide.

Divide. Estimate to check that your answer is reasonable.

1. $720 \div 6$ **120**
2. $661 \div 3$ **220 R1**
3. $424 \div 4$ **106**
4. $914 \div 3$ **304 R2**
5. $6 \overline{)185}$ **30 R5**
6. $9 \overline{)1,872}$ **208**
7. $7 \overline{)2,940}$ **420**
8. $5 \overline{)1,532}$ **306 R2**

Remember that you can use divisibility rules to help find factors of a number.

Determine all the factor pairs for each number.

1. 15 **1 and 15, 3 and 5**
2. 20 **1 and 20, 2 and 10, 4 and 5**
3. 24 **1 and 24, 2 and 12, 3 and 8, 4 and 6**
4. 36 **1 and 36, 2 and 18, 3 and 12, 4 and 9, 6 and 6**
5. 70 **1 and 70, 2 and 35, 5 and 14, 7 and 10**
6. 80 **1 and 80, 2 and 40, 4 and 20, 5 and 16, 8 and 10**
7. 85 **1 and 85, 5 and 17**
8. 98 **1 and 98, 2 and 49, 7 and 14**

Topic 4
Reteaching

Set H, pages 106–108

Is 6 a prime or composite number?

A prime number is a whole number with no other factors besides 1 and itself.

A composite number is a number that is not prime; it has factors other than 1 and itself.

Factors of 6: 1 and 6, and 2 and 3

The number 6 is composite.

Is 47 a prime or composite number?

Since the only factors of 47 are 1 and 47, it is a prime number.

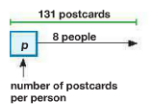
Remember that a prime number is a whole number that is greater than 1 and has exactly two factors, 1 and itself.

Classify each as prime or composite.

1. 11 **prime**
2. 15 **composite**
3. 18 **composite**
4. 19 **prime**
5. 27 **composite**
6. 33 **composite**
7. 200 **composite**
8. 555 **composite**

Set I, pages 110–112

Eight friends want to share 131 postcards. How many postcards will each person get if each person gets the same number of cards? Draw a picture and write an equation to solve.



$$\begin{array}{r} 16 \text{ R}3 \\ 8 \overline{)131} \\ \underline{-8} \\ 51 \\ \underline{-48} \\ 3 \end{array}$$

$$p = 16 \text{ R}3$$

Since there is a remainder of 3 postcards, there are not enough for each person to get 17 cards.

Each friend will receive 16 postcards.

Remember that you may need to interpret the remainder before solving each problem.

Draw a picture and write an equation. Solve.

1. A total of 60 students are being separated into 5 equal teams. How many students are on each team? **See margin.**
2. Nancy has 35 bottles of water that she wants to put into portable coolers. Each cooler can hold 6 bottles. How many coolers will Nancy need? **See margin.**
3. A restaurant made 142 pancakes. Each serving had 3 pancakes on a plate. How many servings were there? **See margin.**

Set I

1.
$$60 \div 5 = t$$

$$t = 12; 12 \text{ students on each team}$$

2.
$$35 \div 6 = c$$

$$c = 5 \text{ R}5; 6 \text{ coolers are needed}$$

3.
$$142 \div 3 = p$$

$$p = 47 \text{ R}1; 47 \text{ servings}$$