

**Additional Practice****Investigation 4****Bits and Pieces II**

1. Find each quotient. Describe any patterns you see.

a.  $20 \div 2$       b.  $20 \div 1$       c.  $20 \div \frac{1}{2}$       d.  $20 \div \frac{1}{4}$       e.  $20 \div \frac{1}{8}$

2. LiAnn works in the Olde Tyme Soda Shoppe. The shop sells milkshakes, double milkshakes, and triple milkshakes. A shake uses  $\frac{1}{8}$  cup of syrup, a double shake uses  $\frac{1}{4}$  cup of syrup, and a triple shake uses  $\frac{3}{8}$  cup of syrup. How many shakes of each kind could she make with 3 cups of syrup?

3. Three groups of students are sharing leftover pizza (all the same size originally). In which group does each student get the most pizza? Explain your choice.

A. Six students equally share  $\frac{3}{4}$  of a pizza.

B. Three students equally share  $\frac{1}{3}$  of a pizza.

C. Four students equally share  $\frac{2}{3}$  of a pizza.

4. Find each quotient.

a.  $12 \div \frac{1}{2}$

b.  $12 \div \frac{1}{3}$

c.  $3 \div \frac{2}{3}$

d.  $\frac{7}{8} \div 4$

e.  $1\frac{2}{3} \div 6$

f.  $\frac{5}{6} \div \frac{1}{3}$

g.  $1\frac{1}{4} \div 2\frac{1}{2}$

h.  $\frac{8}{5} \div \frac{3}{10}$

i.  $1\frac{1}{2} \div \frac{3}{4}$

**Additional Practice** *(continued)***Investigation 4****Bits and Pieces II**

5. Max noticed a pattern in some fraction division problems that he computed.

$$\frac{6}{8} \div \frac{3}{8} \text{ gives the same answer as } 6 \div 3.$$

$$\frac{7}{10} \div \frac{3}{10} \text{ gives the same answer as } 7 \div 3.$$

$$\frac{9}{5} \div \frac{2}{5} \text{ gives the same answer as } 9 \div 2.$$

$$\frac{4}{7} \div \frac{5}{7} \text{ gives the same answer as } 4 \div 5.$$

Describe the pattern that Max found. Explain why it works.

6. Sam, Trish, and Shanti are making signs for the spring dance. Sam can make a sign in  $\frac{3}{4}$  of an hour, Trish can make a sign in  $\frac{2}{3}$  of an hour, and Shanti can make a sign in  $\frac{3}{5}$  of an hour.
- a. How many complete signs can each person make in 4 hours?
- b. Who has the most time left over after finishing their last complete sign?  
How do you know?
7. How many bows can you make from 5 meters of ribbon if making a bow takes  $\frac{1}{4}$  of a meter of ribbon?