

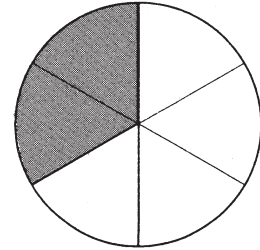
1. a. 
$$\begin{array}{r} 827 \\ \times \quad 3 \\ \hline \end{array}$$

b. Find the quotient:  $9 \overline{)546}$

2.  $\frac{2}{6}$  of this circle is shaded.

a. What fraction is not shaded? \_\_\_\_\_

b. Is the shaded area equal to  $\frac{1}{2}$ ? \_\_\_\_\_



3.   $\times 30 =$  \_\_\_\_\_

4. A soup recipe calls for 4 cups of water. Express what part of a gallon this is in decimal form. \_\_\_\_\_

5. Problem solving: We are two numbers. Our sum is 12. The difference between us is 8. What 2 numbers are we?

\_\_\_\_\_ + \_\_\_\_\_ = 12      \_\_\_\_\_ - \_\_\_\_\_ = 8

6. Hands on fraction: Fill in the missing sign: < or >

$$\frac{5}{8} - \frac{2}{8} \quad \square \quad \frac{3}{4} - \frac{1}{4}$$

7. Ella's backyard is 1,188 square feet. The length of her yard is 54 feet. What is its width? \_\_\_\_\_

8. Estimate the quotient by rounding to the nearest dollar:

a.  $\$31.78 \div 4 =$  \_\_\_\_\_

b.  $\$20.16 \div 5 =$  \_\_\_\_\_

9. Underline the composite numbers. Circle the prime numbers:

3    7    9    11    13    16    19    21

10. Order these decimals from least to greatest:

.50

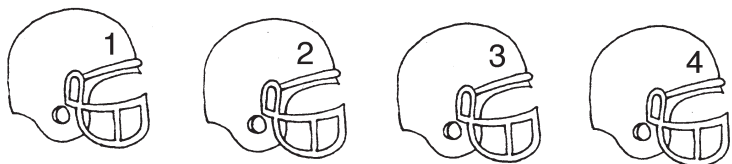
.3

.03

.05

\_\_\_\_\_

11. Four teams all want to play each other during the season. How many games in all will be played if they play each other only once? \_\_\_\_\_



12. a.  $1\frac{3}{4}$   
 $+\frac{3}{4}$   
 \_\_\_\_\_

b.  $1\frac{5}{8}$   
 $+\frac{7}{8}$   
 \_\_\_\_\_

13. Does a garden plot that measures 45 feet by 20 feet have the same perimeter as one that measures 15 feet by 55 feet?

\_\_\_\_\_



1. a. 
$$\begin{array}{r} 6,623 \\ - 3,596 \\ \hline \end{array}$$

b.  $1,354 + 6,976 = \underline{\hspace{2cm}}$

2. Beverly bought 2 dozen cupcakes for her softball team. There are nine girls on the team. How many cupcakes will each girl receive?  $\underline{\hspace{2cm}}$  Will Beverly have any left over?  $\underline{\hspace{2cm}}$



3. a. 
$$\begin{array}{r} 916 \\ \times 10 \\ \hline \end{array}$$

b.  $90 \overline{)540}$

4. This is how you would write the number 3,681 in expanded form:  
 $(3 \times 1000) + (6 \times 100) + (8 \times 10) + (7 \times 1)$

Write 4,905 in expanded form:

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 4,687$

5. Change these decimals to fractions. Example:  $.5 = \frac{1}{2}$

a.  $.25 = \underline{\hspace{2cm}}$

b.  $.8 = \underline{\hspace{2cm}}$

6. The addition sign is missing. Where does it belong?

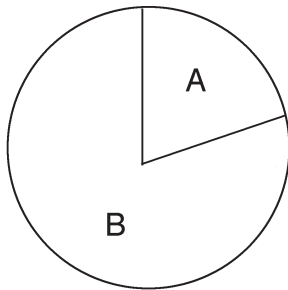
$2\ 4\ 4\ 4\ 2 = 2\ 8\ 6 \underline{\hspace{2cm}}$

7. Look at this number: 6,657,381 and fill in the blank below:

The "6" with the larger value is worth  $\underline{\hspace{2cm}}$  times more than the "6" with the smaller value.



8.



Angle B is  $275^\circ$ . What is angle A? \_\_\_\_\_

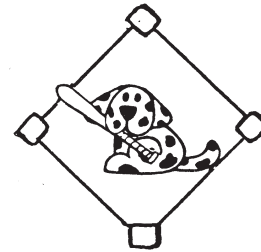
9. Which picture has an odd number of stars? \_\_\_\_\_



10. Circle which is larger:

14 quarts

3 gallons



11. In baseball all four bases are 90 feet apart. How far would you run if you hit a “double” (2 bases)? \_\_\_\_\_ How about a home run (4 bases)? \_\_\_\_\_

12. Which decimal equals the fraction  $\frac{1}{2}$ ? .8 .5 .4 \_\_\_\_\_

13. Match the fraction on the left with an equivalent (equal) fraction on the right:

- |                |                 |
|----------------|-----------------|
| $\frac{3}{4}$  | $\frac{3}{9}$   |
| $1\frac{1}{2}$ | $\frac{14}{12}$ |
| $\frac{1}{3}$  | $\frac{6}{8}$   |
| $\frac{7}{6}$  | $\frac{3}{2}$   |

**Lesson #31**1. **2,567,943**

- a. What number is in the **hundred thousands** place? \_\_\_\_\_
- b. What number is in the **millions** place? \_\_\_\_\_
- c. What number is in the **ten thousands** place? \_\_\_\_\_

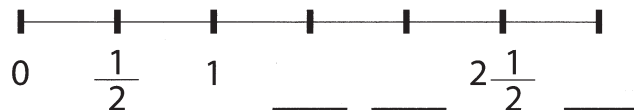
2. Put these decimals in order from **least** to **greatest**:

3.86      3.08      3.06      3.68

\_\_\_\_\_

3. Match the number on the left to its equivalent **decimal**:

- a.  $\frac{1}{2}$                       1.00
- b.  $\frac{1}{4}$                         .50
- c.  $\frac{3}{4}$                         .25
- d. 1                            .75

4. Fill in these **improper fractions** on the number line below:  $\frac{9}{3}$ ,  $\frac{3}{2}$ ,  $\frac{8}{4}$ 5. Circle all of the **prime numbers**:

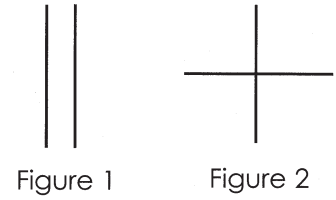
3                      6                      7                      10                      11

## 6. You have \$10.00. You buy 3 sodas for \$1.75 each. To find out how much money you will have left you would:

- a. Multiply first, then subtract      b. Subtract first, then multiply

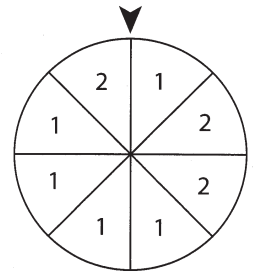
### Lesson #31 continued

7. a. Which figure shows **perpendicular** lines? \_\_\_\_\_  
 b. Which figure shows **parallel** lines? \_\_\_\_\_  
 c. In which figure do the lines **intersect**? \_\_\_\_\_



8. Would 40,000 be a **reasonable estimate** for  $20,106 \times 2$ ? \_\_\_\_\_

9. If you spin this number wheel the **probability** that the arrow will point to a 2 is 3 out of 8 or  $\frac{3}{8}$ . What is the probability that the arrow will point to a 1?



\_\_\_\_\_ out of \_\_\_\_\_ or \_\_\_\_\_

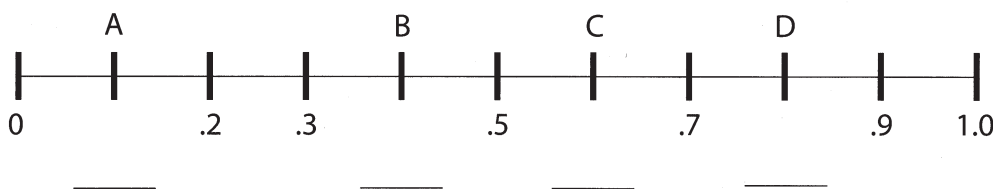
10. Which number represents 10 degrees below zero Farenheit?

**10°F** or **-10°F**

11. Decide whether you would need an **exact** or **estimated** measurement.

- a. The number of cookies for the school picnic \_\_\_\_\_  
 b. The amount of medicine to take for an illness \_\_\_\_\_

12. Fill in these fractions on the number line below:  $\frac{1}{10}$   $\frac{8}{10}$   $\frac{6}{10}$   $\frac{4}{10}$



# Math Facts Sharpener • Grades 3 and 4

$$\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

# Math Facts Sharpener • Grades 3 and 4

$3 \div 1 =$

$63 \div 9 =$

$42 \div 6 =$

$20 \div 5 =$

$15 \div 3 =$

$6 \div 3 =$

$24 \div 3 =$

$18 \div 6 =$

$36 \div 6 =$

$3 \div 3 =$

$10 \div 2 =$

$21 \div 7 =$

$2 \div 1 =$

$72 \div 9 =$

$56 \div 8 =$

$30 \div 5 =$

$25 \div 5 =$

$8 \div 2 =$

$24 \div 4 =$

$63 \div 7 =$

$18 \div 9 =$

$40 \div 8 =$

$6 \div 2 =$

$54 \div 9 =$

$12 \div 2 =$

$9 \div 3 =$

$5 \div 5 =$

$28 \div 4 =$

$64 \div 8 =$

$36 \div 9 =$

$4 \div 2 =$

$12 \div 4 =$

$16 \div 4 =$

$18 \div 9 =$

$35 \div 7 =$

$32 \div 8 =$