# How to Use This Book . . .

The activities in this book provide an excellent source of math practice for elementary students. The pages can be used as drill reinforcement or as independent instructional material and are designed to help motivate students to learn through a variety of exercises. The activities in this book are grouped by skill; these skills may overlap more than one grade level and should be used in ways that best meet each student's needs. The reproducibles are created so that a student can work with a minimum of supervision in a classroom or at home. Answer keys to all exercises have been provided in the back of the book.
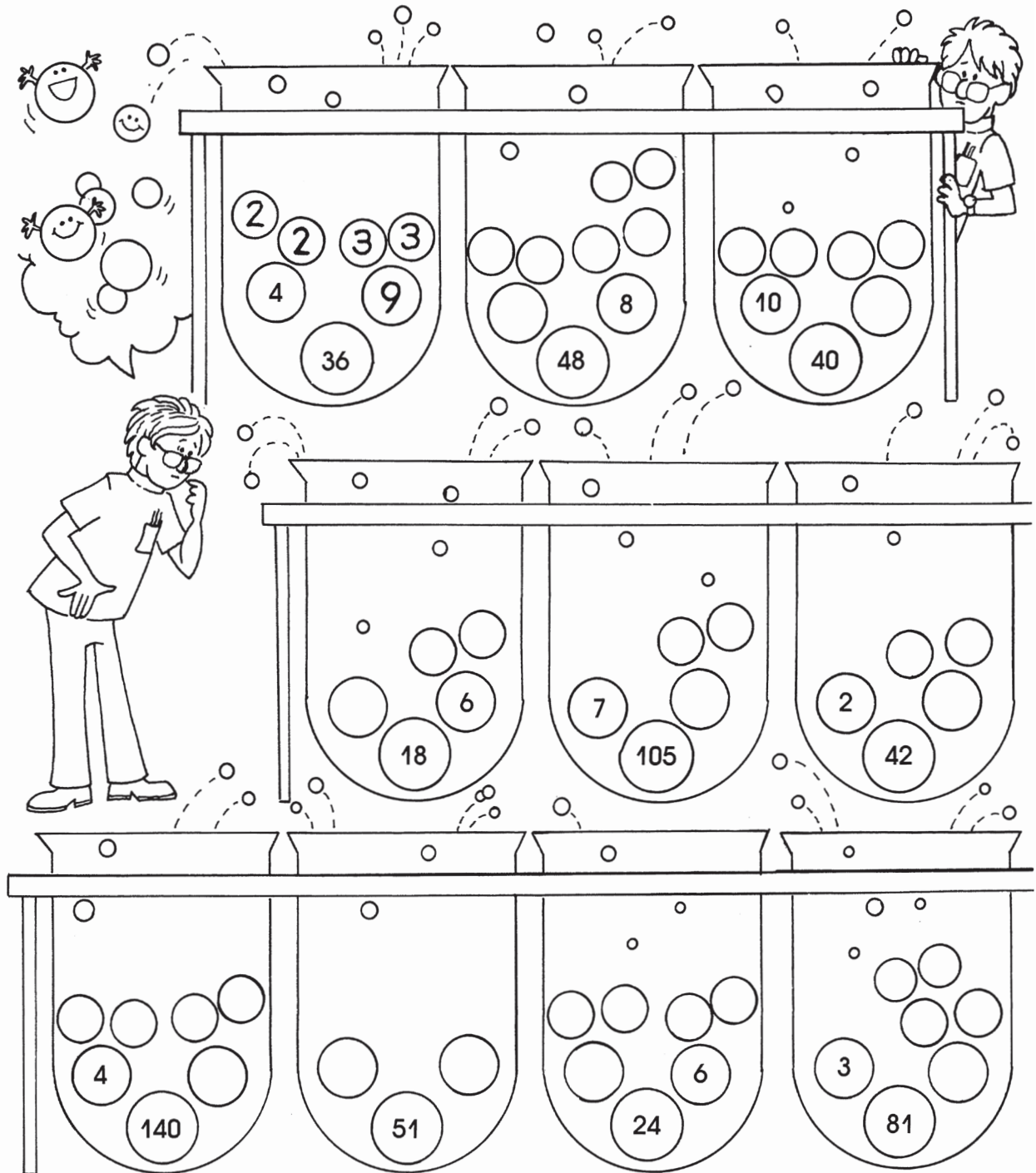
EXTRA! EXTRA! When you see this symbol, be sure to check out the "extra" extension activity provided.

## Table of Contents

# Math Lab

Help the scientist make the number cells grow.
Write the missing factors.



Circle the prime numbers.

53     34     79     7     41     44     53     71     92     99

Name _____     Date _____

# The Math Detective

1.  Using the numbers 1, 5, 6, 7, fill in the boxes below to form two fractions whose sum is as close to 1 as possible, but not 1. Each number may be used only once.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

2.  Using the numbers 2, 5, 6, 8, fill in the boxes below to form two fractions whose sum is as close to 1 as possible, but not less than 1. Each number may only be used once.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

3.  Using the numbers 3, 5, 7, 9, fill in the boxes below to form two fractions whose sum is greater than 2. Each number may only be used once.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$
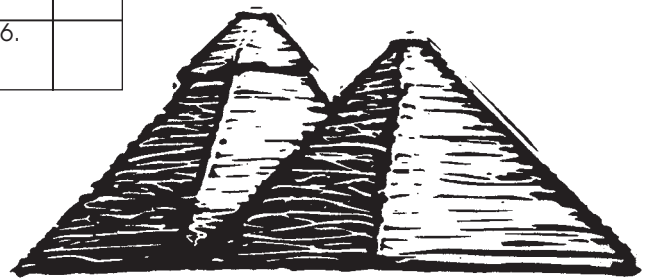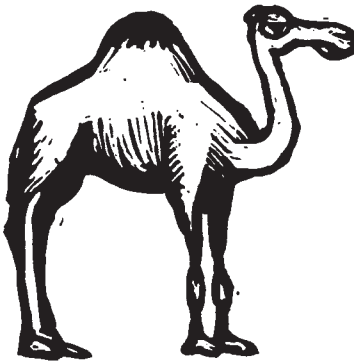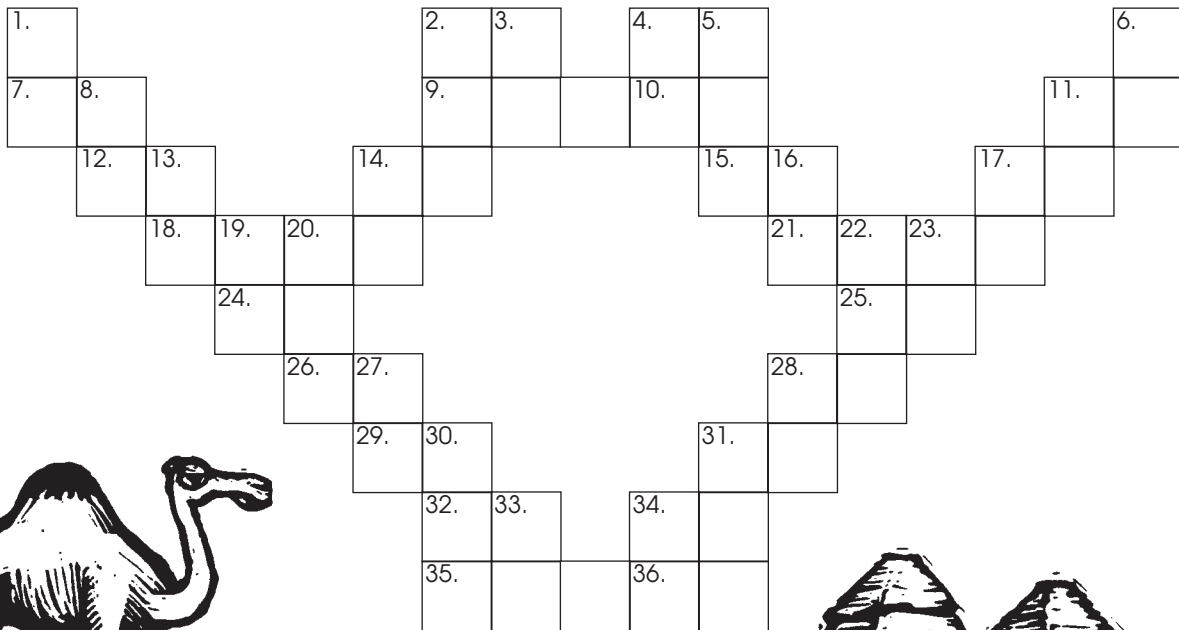
4.  Using the numbers 2, 4, 6, 8, fill in the boxes below to form two fractions whose sum is greater than 3. Each number may be used only once.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

5.  Using the numbers 1, 2, 15, 16, fill in the boxes below to form two fractions whose sum is as close to 0 as possible. Each number may be used only once.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

Name_____ Date _____

# Fraction Puzzler



## Across:

**2.** $\frac{9}{11} + \frac{12}{11} = \frac{x}{11}$

**4.** $13\frac{3}{3} = x$

**7.** $\frac{11}{2} + \frac{13}{2}$

**9.** $\frac{1}{x} = \frac{5}{100}$

**10.** $\frac{17}{3} - \frac{4}{3} = \frac{x}{3}$

**11.** $\frac{100}{4} = x$

**12.** $25 - 12\frac{6}{6}$

**14.** $\frac{186}{6} = x$

**15.** $80\frac{7}{7} = x$

**17.** $\frac{34}{2} = x$

**18.** $2{,}064\frac{1}{2} + 2{,}065\frac{1}{2}$

**21.** $4{,}820\frac{3}{4} - 2{,}208\frac{3}{4}$

**24.** $22 + 17\frac{7}{7}$

**25.** $8\frac{3}{5} + 9\frac{2}{5}$

**26.** $\frac{5}{75} = \frac{1}{x}$

**28.** $\frac{51}{2} + \frac{31}{2}$

**29.** $\frac{94}{3} - \frac{16}{3}$

**31.** $100 - 79\frac{5}{5}$

**32.** $1 = \frac{x}{16}$

**34.** $\frac{17}{20} - \frac{4}{20} = \frac{x}{20}$

**35.** $\frac{1}{12} = \frac{x}{144}$

**36.** $54\frac{8}{8} = x$

## Down:

**1.** $\frac{6}{66} = \frac{1}{x}$

**2.** $20\frac{1}{2} + 200\frac{1}{2}$

**3.** $\frac{21}{4} + \frac{19}{4}$

**4.** $22 - 10\frac{5}{5}$

**5.** $420 + 17\frac{2}{2}$

**6.** $\frac{3}{45} = \frac{1}{x}$

**8.** $\frac{84}{2} - \frac{42}{2}$

**11.** $26\frac{8}{8} = x$

**13.** $40\frac{8}{9} - 16\frac{8}{9}$

**14.** $\frac{1}{3} = \frac{10}{x}$

**16.** $\frac{x}{24} = \frac{1}{2}$

**17.** $\frac{1}{4} = \frac{3}{x}$

**19.** $\frac{2}{x} = \frac{1}{7}$

**20.** $\frac{903}{3} = x$

**22.** $612\frac{1}{4} - 1\frac{1}{4}$

**23.** $\frac{29}{3} + \frac{25}{3}$

**27.** $51\frac{5}{5} = x$

**28.** $\frac{4}{5} = \frac{x}{50}$

**30.** $200\frac{1}{5} + 410\frac{4}{5}$

**31.** $366 - 130\frac{5}{5}$

**33.** $61\frac{10}{10} = x$

**34.** $\frac{x}{15} = 1$

# Puppetry!

To make a puppet, the following materials are needed:

| | |
|---|---|
| $\frac{3}{4}$ yd. fur fabric | $3.79 per yard |
| $\frac{1}{8}$ yd. felt | $1.25 per yard |
| glue-on eyes | 15¢ for 2 |
| thread | 85¢ |
| glue | $1.95 |

1. Jenny wanted to make four puppets. How much fur fabric was needed?

   _____

2. What was the cost?_____

3. How much felt was needed? _____ Cost? _____
   (Round up)

4. How many eyes? _____ Cost?_____

5. What is the cost so far? _____ For one puppet?_____

6. Jenny needed thread and glue. That made the total cost _____.

7. Sara wanted six puppets. The store had 4 yards of fur left. Was that enough?

   _____

8. Could she make five puppets?_____

9. How much fur would be left over?_____

10. If they work together, how much felt do the girls need?_____

**EXTRA!**

Write the name of a famous puppet. Use an encyclopedia or the internet to help you.