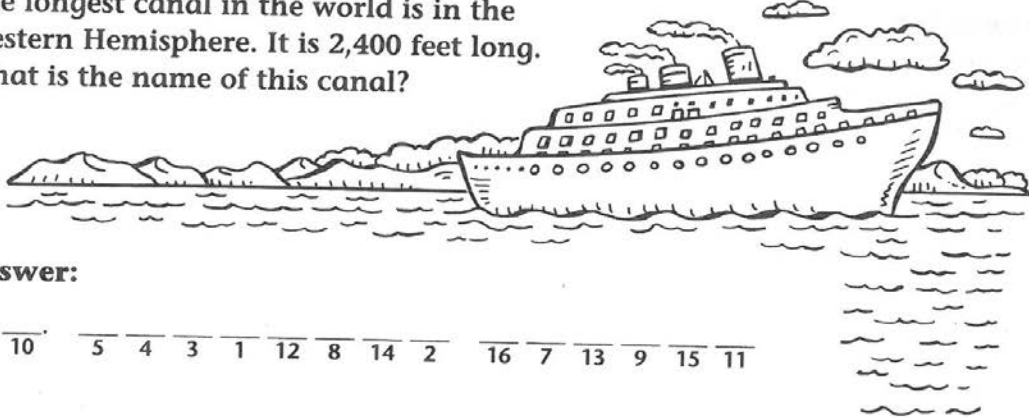


Name \_\_\_\_\_ Date \_\_\_\_\_

# Ships Ahoy!

Writing Equivalent Fractions

The longest canal in the world is in the Western Hemisphere. It is 2,400 feet long. What is the name of this canal?



**Answer:**

6 10 5 4 3 1 12 8 14 2 16 7 13 9 15 11

To answer the question, match each fraction with an equivalent fraction in the Answer Box. Then write the letter of each equivalent fraction in the space above its problem number.

1  $\frac{9}{10} =$  \_\_\_\_\_

9  $\frac{3}{8} =$  \_\_\_\_\_

2  $\frac{4}{5} =$  \_\_\_\_\_

10  $\frac{6}{7} =$  \_\_\_\_\_

3  $\frac{2}{3} =$  \_\_\_\_\_

11  $\frac{5}{6} =$  \_\_\_\_\_

4  $\frac{4}{9} =$  \_\_\_\_\_

12  $\frac{5}{7} =$  \_\_\_\_\_

5  $\frac{3}{4} =$  \_\_\_\_\_

13  $\frac{5}{12} =$  \_\_\_\_\_

6  $\frac{2}{5} =$  \_\_\_\_\_

14  $\frac{1}{2} =$  \_\_\_\_\_

7  $\frac{5}{8} =$  \_\_\_\_\_

15  $\frac{7}{10} =$  \_\_\_\_\_

8  $\frac{1}{6} =$  \_\_\_\_\_

16  $\frac{7}{8} =$  \_\_\_\_\_

### Answer Box

- |                    |                     |
|--------------------|---------------------|
| L. $\frac{15}{20}$ | A. $\frac{12}{27}$  |
| W. $\frac{12}{32}$ | Y. $\frac{15}{18}$  |
| T. $\frac{18}{21}$ | N. $\frac{3}{18}$   |
| E. $\frac{15}{24}$ | S. $\frac{21}{24}$  |
| W. $\frac{6}{9}$   | E. $\frac{12}{15}$  |
| A. $\frac{21}{30}$ | E. $\frac{10}{14}$  |
| A. $\frac{10}{24}$ | S. $\frac{10}{25}$  |
| R. $\frac{18}{20}$ | C. $\frac{50}{100}$ |

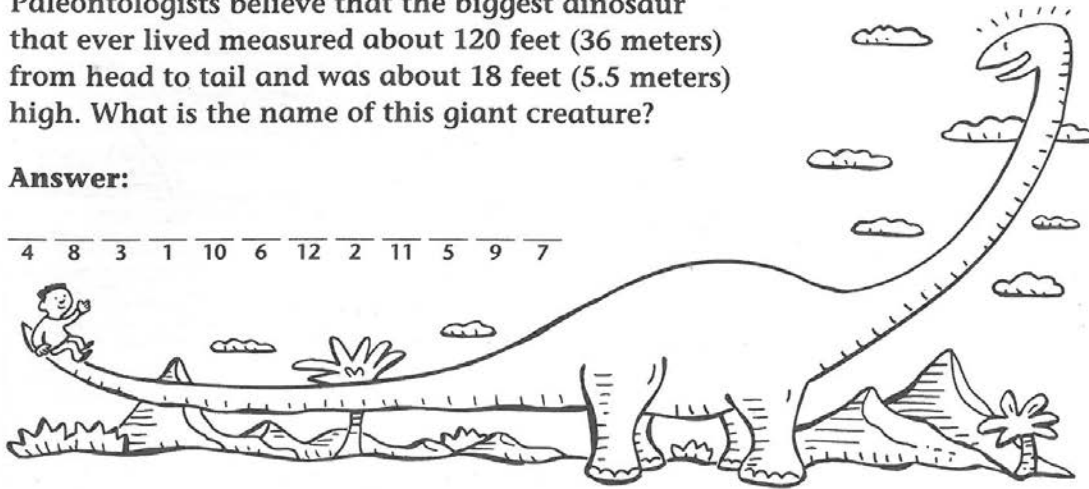
# A Giant Dinosaur

## Simplifying Fractions

Paleontologists believe that the biggest dinosaur that ever lived measured about 120 feet (36 meters) from head to tail and was about 18 feet (5.5 meters) high. What is the name of this giant creature?

**Answer:**

4 8 3 1 10 6 12 2 11 5 9 7



To answer the question, simplify each fraction and find its simplified form in the Answer Box. Then write the letter of each simplified fraction in the space above its problem number. (Some letters will be used more than once. Some letters will not be used.)

**1**  $\frac{9}{12} =$  \_\_\_\_\_

**7**  $\frac{6}{8} =$  \_\_\_\_\_

**2**  $\frac{6}{16} =$  \_\_\_\_\_

**8**  $\frac{12}{33} =$  \_\_\_\_\_

**3**  $\frac{8}{20} =$  \_\_\_\_\_

**9**  $\frac{9}{21} =$  \_\_\_\_\_

**4**  $\frac{15}{20} =$  \_\_\_\_\_

**10**  $\frac{15}{18} =$  \_\_\_\_\_

**5**  $\frac{21}{27} =$  \_\_\_\_\_

**11**  $\frac{12}{28} =$  \_\_\_\_\_

**6**  $\frac{10}{24} =$  \_\_\_\_\_

**12**  $\frac{12}{16} =$  \_\_\_\_\_

**Answer Box**

R.  $\frac{7}{9}$

A.  $\frac{3}{8}$

N.  $\frac{6}{14}$

M.  $\frac{5}{6}$

E.  $\frac{4}{11}$

T.  $\frac{4}{10}$

S.  $\frac{3}{4}$

U.  $\frac{3}{7}$

I.  $\frac{2}{5}$

O.  $\frac{5}{12}$

Name \_\_\_\_\_

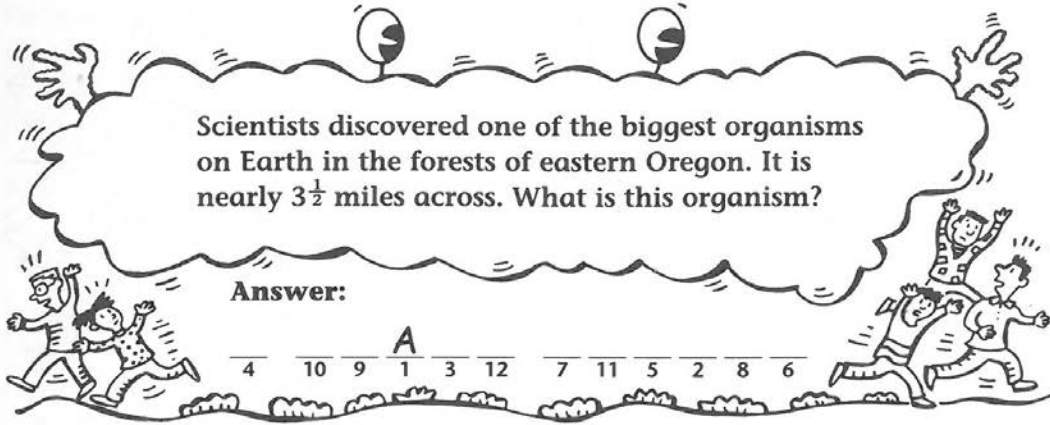
Date \_\_\_\_\_

# A Huge, Mysterious Life-form

Converting  
Improper Fractions  
to Mixed Numbers

Scientists discovered one of the biggest organisms on Earth in the forests of eastern Oregon. It is nearly  $3\frac{1}{2}$  miles across. What is this organism?

Answer:



To answer the question above, convert each improper fraction to a mixed number in the simplest form. Find each answer in the Answer Box. Then write the corresponding letter in the space above its problem number. (Not all letters will be used.) The first one is done for you.

1  $\frac{8}{3} = 2\frac{2}{3}$

7  $\frac{21}{9} =$  \_\_\_\_\_

2  $\frac{27}{5} =$  \_\_\_\_\_

8  $\frac{44}{8} =$  \_\_\_\_\_

3  $\frac{24}{7} =$  \_\_\_\_\_

9  $\frac{17}{4} =$  \_\_\_\_\_

4  $\frac{14}{3} =$  \_\_\_\_\_

10  $\frac{38}{4} =$  \_\_\_\_\_

5  $\frac{32}{6} =$  \_\_\_\_\_

11  $\frac{19}{12} =$  \_\_\_\_\_

6  $\frac{56}{6} =$  \_\_\_\_\_

12  $\frac{22}{10} =$  \_\_\_\_\_

## Answer Box

U.  $1\frac{7}{12}$

T.  $2\frac{1}{5}$

F.  $2\frac{1}{3}$

D.  $2\frac{2}{5}$

A.  $2\frac{2}{3}$

B.  $3\frac{1}{5}$

R.  $3\frac{1}{3}$

N.  $3\frac{3}{7}$

I.  $4\frac{1}{4}$

A.  $4\frac{2}{3}$

N.  $5\frac{1}{3}$

G.  $5\frac{2}{5}$

U.  $5\frac{1}{2}$

S.  $9\frac{1}{3}$

G.  $9\frac{1}{2}$

Name \_\_\_\_\_ Date \_\_\_\_\_

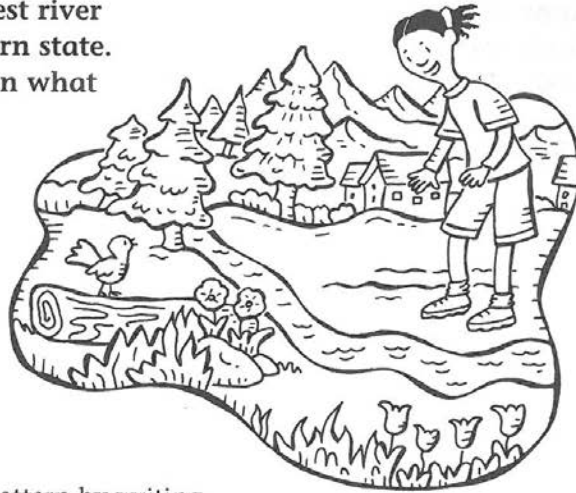
# A Very Short River

Identifying Fraction Patterns

At just 201 feet in length, the shortest river in the world is located in this western state. What is the name of the river and in what state is it located?

Answer:

\_\_\_\_\_ River,  
 $\frac{1}{11}$   $\frac{16}{20}$   $\frac{4}{8}$   
 $\frac{2}{5}$   $\frac{16}{20}$   $\frac{1}{81}$   $\frac{1}{16}$  3  $\frac{1}{81}$  3



To answer the question, complete each pattern by writing the missing fraction. Then write the letter of the missing fraction in the space above the fraction. (Some letters will be used more than once. Some letters will not be used.)

1  $\frac{1}{2}, \frac{2}{4}, \frac{3}{6},$  \_\_\_\_\_,  $\frac{5}{10}$   
**E**

6  $\frac{3}{4}, 1\frac{1}{4}, 1\frac{3}{4},$  \_\_\_\_\_,  $2\frac{3}{4}$   
**D**

2  $\frac{1}{2}, 1, 1\frac{1}{2},$  \_\_\_\_\_,  $2\frac{1}{2}$   
**I**

7  $\frac{1}{3}, \frac{1}{9}, \frac{1}{27},$  \_\_\_\_\_,  $\frac{1}{243}$   
**N**

3  $\frac{1}{5}, \frac{1}{7}, \frac{1}{9},$  \_\_\_\_\_,  $\frac{1}{13}$   
**R**

8  $\frac{1}{10}, \frac{1}{5}, \frac{3}{10},$  \_\_\_\_\_,  $\frac{1}{2}$   
**M**

4  $\frac{1}{2}, \frac{3}{4}, \frac{5}{6},$  \_\_\_\_\_,  $\frac{9}{10}$   
**B**

9  $\frac{1}{1}, \frac{1}{4}, \frac{1}{9},$  \_\_\_\_\_,  $\frac{1}{25}$   
**T**

5  $4, 3\frac{2}{3}, 3\frac{1}{3},$  \_\_\_\_\_,  $2\frac{2}{3}$   
**A**

10  $\frac{1}{5}, \frac{4}{10}, \frac{9}{15},$  \_\_\_\_\_, 1  
**O**

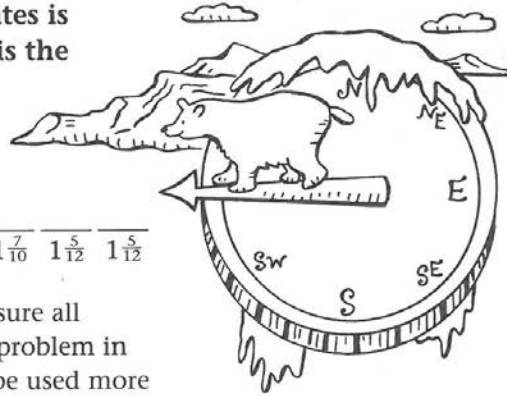
Name \_\_\_\_\_ Date \_\_\_\_\_

# Go West!

**Adding Simple Fractions (Unlike Denominators)**

The westernmost point of the United States is located in Alaska on Attu Island. What is the name of this place?

**Answer:**



$1\frac{1}{2}$   $1\frac{2}{5}$   $1\frac{3}{8}$   $1\frac{7}{10}$   $1\frac{2}{9}$   $\frac{11}{15}$   $1\frac{2}{5}$   $1\frac{1}{6}$   $1\frac{1}{12}$   $1\frac{7}{10}$   $1\frac{5}{12}$   $1\frac{5}{12}$

To answer the question, add the fractions. Be sure all answers are simplified. Write the letter of the problem in the space above its answer. (Some letters will be used more than once. Some letters will not be used.)

R.  $\frac{2}{5}$   
+  $\frac{1}{3}$

P.  $\frac{5}{8}$   
+  $\frac{3}{4}$

C.  $\frac{2}{3}$   
+  $\frac{5}{6}$

M.  $\frac{2}{5}$   
+  $\frac{7}{10}$

L.  $\frac{5}{6}$   
+  $\frac{7}{12}$

G.  $\frac{3}{4}$   
+  $\frac{1}{3}$

A.  $\frac{9}{10}$   
+  $\frac{1}{2}$

W.  $\frac{5}{9}$   
+  $\frac{2}{3}$

N.  $\frac{1}{3}$   
+  $\frac{5}{6}$

I.  $\frac{2}{7}$   
+  $\frac{3}{14}$

H.  $\frac{1}{2}$   
+  $\frac{1}{7}$

E.  $\frac{4}{5}$   
+  $\frac{9}{10}$

# An Early Astronomer

**Subtracting Simple Fractions (Unlike Denominators)**

For most of history, Europeans believed that the sun, planets, and stars revolved around Earth. This began to change in the 1500s when a Polish astronomer offered his theory that Earth revolves around the sun. Who was this man?



**Answer:**  $\frac{5}{9}$   $\frac{3}{4}$   $\frac{1}{3}$   $\frac{5}{6}$   $\frac{1}{6}$   $\frac{1}{4}$   $\frac{3}{8}$   $\frac{3}{20}$

$\frac{1}{3}$   $\frac{5}{6}$   $\frac{1}{10}$   $\frac{7}{16}$   $\frac{13}{24}$   $\frac{5}{9}$   $\frac{3}{4}$   $\frac{1}{3}$   $\frac{3}{8}$   $\frac{3}{20}$

To answer the question, subtract the fractions. Be sure your answers are simplified. Write the letter of the problem in the space above its answer. (Some letters will be used more than once. Some letters will not be used.)

L.  $\frac{1}{2}$   
 $-\frac{1}{3}$

E.  $\frac{5}{8}$   
 $-\frac{3}{16}$

G.  $\frac{2}{3}$   
 $-\frac{5}{9}$

R.  $\frac{11}{12}$   
 $-\frac{3}{8}$

B.  $\frac{4}{5}$   
 $-\frac{3}{10}$

A.  $\frac{1}{2}$   
 $-\frac{1}{4}$

T.  $\frac{5}{12}$   
 $-\frac{1}{3}$

I.  $\frac{9}{10}$   
 $-\frac{3}{20}$

O.  $\frac{9}{10}$   
 $-\frac{1}{15}$

P.  $\frac{2}{5}$   
 $-\frac{3}{10}$

S.  $\frac{2}{5}$   
 $-\frac{1}{4}$

N.  $\frac{5}{6}$   
 $-\frac{5}{18}$

U.  $\frac{7}{8}$   
 $-\frac{1}{2}$

J.  $\frac{11}{12}$   
 $-\frac{1}{4}$

C.  $\frac{13}{21}$   
 $-\frac{2}{7}$

Name \_\_\_\_\_ Date \_\_\_\_\_

# Monster Hailstone

Multiplying  
Simple Fractions

Most hailstones are the size of small pebbles. On September 3, 1970, though, a hailstone measuring  $17\frac{1}{2}$  inches around fell on this Midwestern town. What is the name of this town and state?



**Answer:**

$\frac{7}{15}$   $\frac{2}{3}$   $\frac{3}{5}$   $\frac{3}{5}$   $\frac{1}{4}$   $\frac{1}{10}$   $\frac{3}{10}$   $2$   $\frac{9}{35}$   $\frac{9}{35}$   $\frac{1}{4}$   $\frac{4}{9}$   $\frac{3}{16}$   $\frac{1}{3}$   $\frac{3}{20}$   $\frac{3}{16}$   $\frac{3}{20}$

To answer the question, multiply the fractions and write your answers in simplest form. Write the letter of the problem in the space above its answer. (Some letters will be used more than once. Some letters will not be used.)

Y.  $\frac{1}{6} \times \frac{3}{5} =$

N.  $\frac{3}{5} \times \frac{5}{9} =$

I.  $8 \times \frac{1}{4} =$

S.  $\frac{5}{12} \times \frac{9}{25} =$

A.  $\frac{3}{10} \times \frac{5}{8} =$

U.  $\frac{3}{4} \times \frac{8}{15} =$

F.  $\frac{2}{3} \times \frac{9}{10} =$

V.  $\frac{12}{25} \times \frac{15}{24} =$

O.  $\frac{4}{5} \times \frac{5}{6} =$

C.  $\frac{2}{3} \times \frac{7}{10} =$

R.  $\frac{3}{10} \times \frac{5}{12} =$

K.  $\frac{10}{21} \times \frac{14}{15} =$

M.  $\frac{3}{4} \times 12 =$

W.  $\frac{2}{3} \times \frac{15}{16} =$

E.  $\frac{5}{8} \times \frac{2}{5} =$

L.  $\frac{6}{21} \times \frac{9}{10} =$

# The Little Dinosaur

## Dividing Simple Fractions

When most people think of dinosaurs, they think big. But there were small dinosaurs, too, the smallest being about the size of a chicken. What is the name of this little dinosaur?

**Answer:**



$\frac{3}{4}$   $1\frac{1}{8}$   $\frac{7}{8}$   $1\frac{1}{3}$   $\frac{4}{5}$   $1\frac{1}{8}$   $\frac{5}{6}$   $1\frac{3}{4}$   $1\frac{1}{4}$   $\frac{2}{3}$   $\frac{2}{7}$   $1\frac{1}{15}$   $\frac{4}{5}$

To answer the question, divide the fractions. Be sure your answers are simplified. Write the letter of the problem in the space above its answer. (Some letters will be used more than once. Some will not be used.)

M.  $\frac{5}{8} \div \frac{5}{7} =$       G.  $\frac{5}{9} \div \frac{2}{3} =$       H.  $\frac{6}{7} \div 3 =$       N.  $\frac{7}{8} \div \frac{1}{2} =$

R.  $\frac{7}{8} \div \frac{3}{4} =$       A.  $\frac{5}{6} \div \frac{2}{3} =$       W.  $\frac{3}{4} \div \frac{1}{5} =$       P.  $\frac{3}{4} \div \frac{9}{16} =$

T.  $\frac{4}{9} \div \frac{2}{3} =$       I.  $\frac{3}{4} \div \frac{5}{8} =$       C.  $\frac{3}{10} \div \frac{2}{5} =$       B.  $2 \div \frac{4}{5} =$

U.  $\frac{2}{5} \div \frac{3}{8} =$       L.  $\frac{9}{16} \div \frac{1}{4} =$       S.  $\frac{2}{3} \div \frac{5}{6} =$       O.  $\frac{3}{4} \div \frac{2}{3} =$