NAME DATE TIME

End-of-Year Assessment

(1) The Appalachian Trail passes through 14 U.S. states, from Maine to Georgia. Use the data in the table to solve the problems given below. Lengths are rounded to the nearest mile.

State	Length of Trail (in miles)
New York	88
West Virginia	4
Maine	281
New Hampshire	161
Vermont	150
Massachusetts	90

a. The trail in New York is how many times as long as the trail in West Virginia?

Equation with unknown: _____

Answer: _____ times as long

b. Dan and Pat hiked the trail from its start in Maine, through New Hampshire, and all the way through Vermont. Pat ended his hike there, but Dan continued all the way through Massachusetts and then hiked back to the starting point in Maine. How much farther did Dan hike than Pat?

Estimate: _____

_____

Number model with unknown: _____

_____

Answer: _____ miles farther

Is your answer reasonable? Explain. _____

_____

_____

NAME DATE TIME

End-of-Year Assessment (continued)

⑤ Solve. Show your work in the space provided.

a. 38 * 27 = _____	**b.** 7,065 ÷ 9 = _____

⑥ Joel's dishwasher uses about 7 gallons of water each time he uses it. He ran his dishwasher every day for several weeks, using a total of 217 gallons of water.

a. For how many days did Joel use his dishwasher?

Answer: _____ days

b. How many quarts of water were used all together? _____ quarts

NAME DATE TIME

End-of-Year Assessment (continued)

(8) **a.** Write <, =, or >.

$\frac{8}{10}$ _____ $\frac{4}{5}$

Whole
red circle

b. Explain how you know your answer to Problem 8a is correct.

c. $\frac{\square}{12} < \frac{1}{2}$

d. Explain how you know your answer to Problem 8c is correct.

(9) **a.** Calvin adds 3 fractions to get an answer of $\frac{1}{2}$.
What might his equation be?

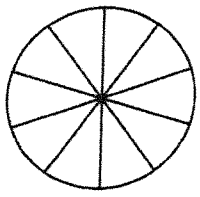
Equation: _____

b. Evan subtracts 2 fractions to get an answer of $\frac{3}{4}$.
What might his equation be?

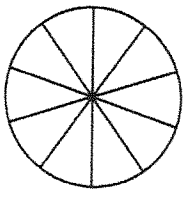
Equation: _____

(10) Decompose, or break down, $\frac{9}{10}$ into two different sums of fractions with the same denominator. Record each decomposition with an equation. Then justify each decomposition by coloring the parts of the circle.

a. Equation: _____



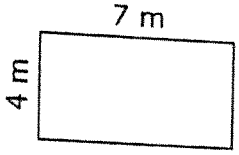
b. Equation: _____



NAME DATE TIME

End-of-Year Assessment (continued)

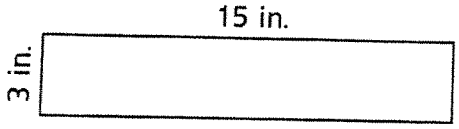
(12) Use a formula to find the perimeter of the rectangle.
Show your work in the space provided.



Perimeter: _____ meters

Number sentence with unknown: _____

(13) Use a formula to find the area of the rectangle.
Show your work in the space provided.



Area: _____ square inches

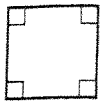
Number sentence with unknown: _____

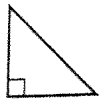
NAME DATE TIME

End-of-Year Assessment (continued)

17







a. Circle the polygon that has:
2 pairs of parallel sides
4 right angles

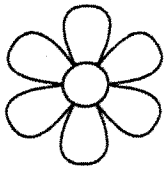
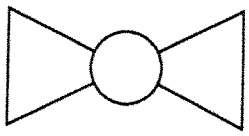
Name: _____

b. Draw an "X" over the polygon that has:
1 pair of perpendicular sides
1 right angle

Name: _____

18 Amy drew a shape and showed it to her teacher.
Her teacher said the shape had exactly 2 lines of symmetry.

a. Circle the shape below that might have been the one Amy drew.


b. Draw the 2 lines of symmetry on Amy's shape.

c. Explain how you know which shape is Amy's.

_____

_____

_____

_____

Name _____

Multiplying by 2

Practice

Directions: Find the missing product.

2 x 5 = ____	2 x 3 = ____	2 x 0 = ____
2 x 7 = ____	2 x 8 = ____	2 x 4 = ____
2 x 1 = ____	2 x 10 = ____	2 x 2 = ____
2 x 9 = ____	2 x 12 = ____	2 x 6 = ____

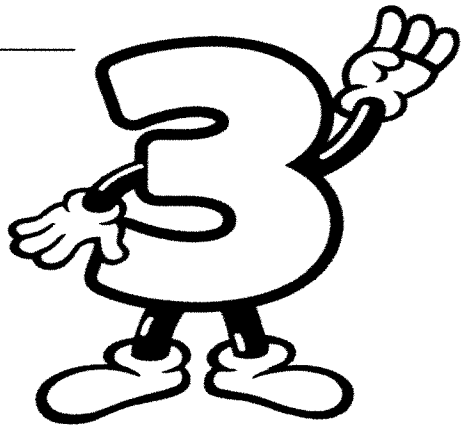
Directions: Find the missing factor.

2 x ____ = 12	2 x ____ = 4	2 x ____ = 10
2 x ____ = 2	2 x ____ = 16	2 x ____ = 0
2 x ____ = 6	2 x ____ = 14	2 x ____ = 8
2 x ____ = 24	2 x ____ = 18	2 x ____ = 20

Name _____

Multiplying by 3

Practice



Directions: Find the missing product.

3 x 3 = ____	3 x 4 = ____	3 x 0 = ____
3 x 7 = ____	3 x 8 = ____	3 x 6 = ____
3 x 1 = ____	3 x 10 = ____	3 x 2 = ____
3 x 9 = ____	3 x 12 = ____	3 x 5 = ____

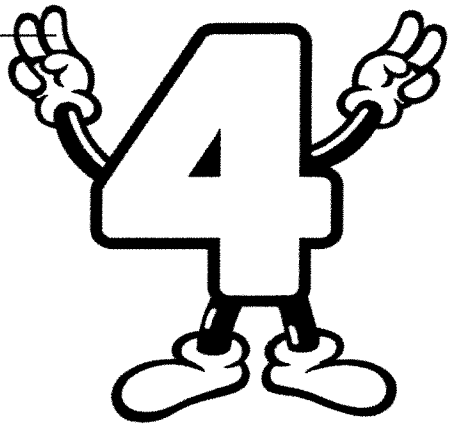
Directions: Find the missing factor.

3 x ____ = 30	3 x ____ = 12	3 x ____ = 18
3 x ____ = 21	3 x ____ = 3	3 x ____ = 0
3 x ____ = 15	3 x ____ = 9	3 x ____ = 27
3 x ____ = 33	3 x ____ = 6	3 x ____ = 36

Name _____

Multiplying by 4

Practice



Directions: Find the missing product.

4 x 3 = ____	4 x 4 = ____	4 x 0 = ____
4 x 7 = ____	4 x 8 = ____	4 x 6 = ____
4 x 1 = ____	4 x 10 = ____	4 x 2 = ____
4 x 9 = ____	4 x 12 = ____	4 x 5 = ____

Directions: Find the missing factor.

4 x ____ = 8	4 x ____ = 12	4 x ____ = 24
4 x ____ = 36	4 x ____ = 0	4 x ____ = 40
4 x ____ = 32	4 x ____ = 16	4 x ____ = 4
4 x ____ = 28	4 x ____ = 48	4 x ____ = 20

Name _____

Multiplying by 5

Practice

Directions: Find the missing product.

5 x 3 = ____	5 x 4 = ____	5 x 0 = ____
5 x 7 = ____	5 x 8 = ____	5 x 6 = ____
5 x 1 = ____	5 x 10 = ____	5 x 2 = ____
5 x 9 = ____	5 x 12 = ____	5 x 5 = ____

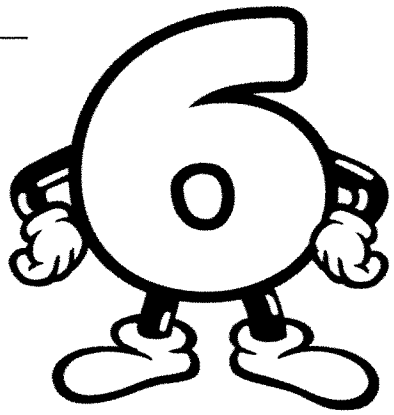
Directions: Find the missing factor.

5 x ____ = 30	5 x ____ = 10	5 x ____ = 25
5 x ____ = 5	5 x ____ = 40	5 x ____ = 0
5 x ____ = 15	5 x ____ = 35	5 x ____ = 20
5 x ____ = 60	5 x ____ = 45	5 x ____ = 50

Name _____

Multiplying by 6

Practice



Directions: Find the missing product.

6 x 1 = ____	6 x 10 = ____	6 x 2 = ____
6 x 3 = ____	6 x 4 = ____	6 x 0 = ____
6 x 7 = ____	6 x 8 = ____	6 x 6 = ____
6 x 9 = ____	6 x 11 = ____	6 x 5 = ____

Directions: Find the missing factor.

6 x ____ = 30	6 x ____ = 12	6 x ____ = 18
6 x ____ = 36	6 x ____ = 6	6 x ____ = 0
6 x ____ = 48	6 x ____ = 66	6 x ____ = 60
6 x ____ = 54	6 x ____ = 42	6 x ____ = 24

Name _____

Multiplying by 7

Practice

Directions: Find the missing product.

7 x 3 = ____	7 x 4 = ____	7 x 0 = ____
7 x 1 = ____	7 x 10 = ____	7 x 2 = ____
7 x 9 = ____	7 x 11 = ____	7 x 5 = ____
7 x 7 = ____	7 x 8 = ____	7 x 6 = ____

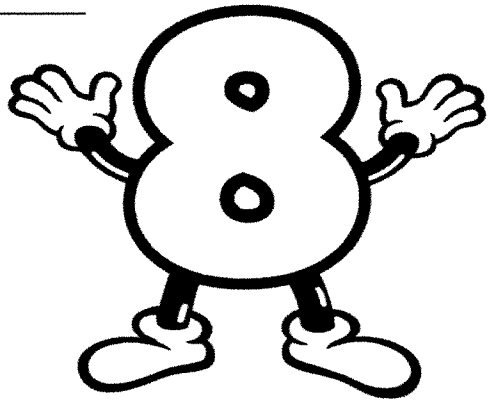
Directions: Find the missing factor.

7 x ____ = 14	7 x ____ = 49	7 x ____ = 0
7 x ____ = 7	7 x ____ = 21	7 x ____ = 35
7 x ____ = 56	7 x ____ = 77	7 x ____ = 70
7 x ____ = 28	7 x ____ = 63	7 x ____ = 42

Name _____

Multiplying by 8

Practice



Directions: Find the missing product.

8 x 1 = ____	8 x 3 = ____	8 x 2 = ____
8 x 10 = ____	8 x 4 = ____	8 x 0 = ____
8 x 9 = ____	8 x 11 = ____	8 x 5 = ____
8 x 7 = ____	8 x 8 = ____	8 x 6 = ____

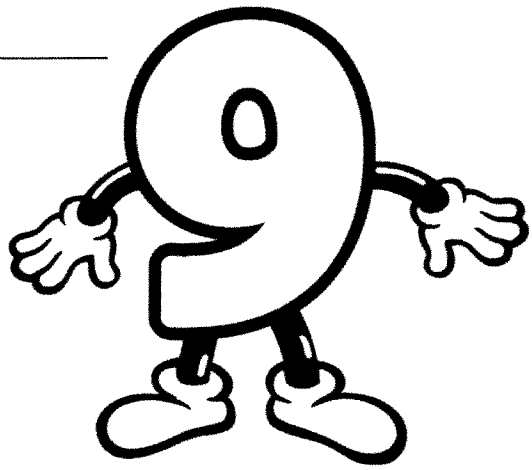
Directions: Find the missing factor.

8 x ____ = 16	8 x ____ = 56	8 x ____ = 0
8 x ____ = 8	8 x ____ = 24	8 x ____ = 40
8 x ____ = 56	8 x ____ = 72	8 x ____ = 80
8 x ____ = 32	8 x ____ = 48	8 x ____ = 88

Name _____

Multiplying by 9

Practice



Directions: Find the missing product.

9 x 3 = ____	9 x 4 = ____	9 x 0 = ____
9 x 7 = ____	9 x 8 = ____	9 x 6 = ____
9 x 1 = ____	9 x 10 = ____	9 x 2 = ____
9 x 9 = ____	9 x 5 = ____	9 x 11 = ____

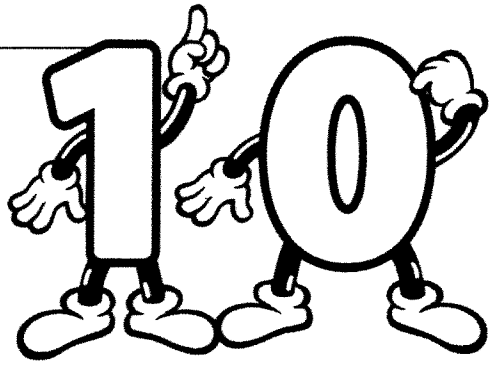
Directions: Find the missing factor.

9 x ____ = 27	9 x ____ = 9	9 x ____ = 18
9 x ____ = 54	9 x ____ = 81	9 x ____ = 63
9 x ____ = 0	9 x ____ = 36	9 x ____ = 72
9 x ____ = 45	9 x ____ = 99	9 x ____ = 90

Name _____

Multiplying by 10

Practice



Directions: Find the missing product.

10 x 3 = ____	10 x 4 = ____	10 x 0 = ____
10 x 7 = ____	10 x 8 = ____	10 x 6 = ____
10 x 1 = ____	10 x 10 = ____	10 x 2 = ____
10 x 9 = ____	10 x 12 = ____	10 x 5 = ____

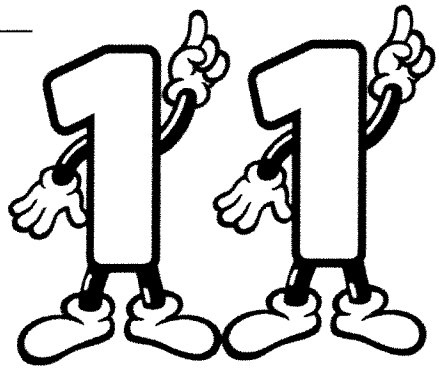
Directions: Find the missing factor.

10 x ____ = 30	10 x ____ = 10	10 x ____ = 20
10 x ____ = 50	10 x ____ = 40	10 x ____ = 70
10 x ____ = 90	10 x ____ = 100	10 x ____ = 110
10 x ____ = 0	10 x ____ = 80	10 x ____ = 120

Name _____

Multiplying by 11

Practice



Directions: Find the missing product.

11 x 7 = ____	11 x 8 = ____	11 x 6 = ____
11 x 3 = ____	11 x 4 = ____	11 x 0 = ____
11 x 1 = ____	11 x 10 = ____	11 x 2 = ____
11 x 9 = ____	11 x 12 = ____	11 x 5 = ____

Directions: Find the missing factor.

11 x ____ = 55	11 x ____ = 44	11 x ____ = 77
11 x ____ = 99	11 x ____ = 22	11 x ____ = 110
11 x ____ = 33	11 x ____ = 11	11 x ____ = 121
11 x ____ = 0	11 x ____ = 88	11 x ____ = 66

Name _____

Multiplying by 12

Practice

Directions: Find the missing product.

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

Directions: Find the missing factor.

12 x ____ = 24	12 x ____ = 60	12 x ____ = 108
12 x ____ = 72	12 x ____ = 84	12 x ____ = 132
12 x ____ = 12	12 x ____ = 144	12 x ____ = 36
12 x ____ = 120	12 x ____ = 96	12 x ____ = 48

Name_____ Date_____

Multiplication Practice

Fill in the blanks

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