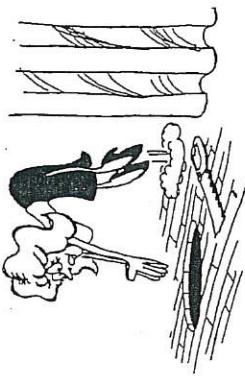


# Why Did the Actress Cut a Hole in the Theater Floor and Dive Through?

Complete the table for each function. Find each answer at the bottom of the page and write the corresponding letter above it.



X	Y
2	T
15	H
99	A
1.5	

X	Y
50	S
24	O
9	E
3	

X	Y
2	T
15	H
99	A
1.5	

X	Y
16	N
45	G
2.5	U
1	

X	Y
16	N
45	G
2.5	U
1	

X	Y
24	H
9	E
0	T
1	

X	Y
24	H
9	E
0	T
1	

X	Y
24	1/2
9	4.5
0	0
1	

X	Y
24	1/2
9	4.5
0	0
1	

X	Y
5	26
7	12
12	20
20	

X	Y
5	26
7	12
12	20
20	

X	Y
6	
1	
7.5	
0	

X	Y
6	
1	
7.5	
0	

X	Y
4	A
18	-
0	U
1.5	S

X	Y
4	A
18	-
0	U
1.5	S

10	52.6	S
19	42	E
401	75	T
180	26	S
18	2	
16	30	
14.5	50	
6.5	15	
20	7	
4.5	3	
20	64	
104	56	
180	52.6	
18	16	
2	12	
30	3	
52.6	1	
52.6	401	

Name \_\_\_\_\_

Practice

**6-3**

## More Patterns and Expressions

1. Write an algebraic expression to represent the cost of a concert ticket,  $h$ , with a service charge of \$6.75.

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2. Write an algebraic expression to represent the cost of  $m$  gallons of gasoline if each gallon costs \$1.45.

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Evaluate each expression for  $n = 3$  and  $n = 6$ .

3.  $0.2 \times n$  \_\_\_\_\_ 4.  $n - 2.1$  \_\_\_\_\_

5.  $\frac{12}{n}$  \_\_\_\_\_ 6.  $35 + n$  \_\_\_\_\_

Complete each table.

7.

$n$	$0.7 + n$
0.5	
0.2	
0.15	
0.1	

8.

$n$	$60 \div n$
1	
2	
3	
4	

9. **Explain It** What is another way to write the expression  $44n$ ? What is another way to write the expression  $44 \div n$ ?

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10. Which is the correct product of  $n \times 7$  if  $n = \$0.25$ ?

A \$3.25    B \$2.75    C \$2.25    D \$1.75

11. **Write a Problem** Write a situation that can be represented by the algebraic expression  $\$3.25d$ .

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Name \_\_\_\_\_

Practice

**6-5**

## Order of Operations

Use the order of operations to evaluate each expression.

1.  $4 \times 4 + 3 =$  \_\_\_\_\_      2.  $3 + 6 \times 2 \div 3 =$  \_\_\_\_\_

3.  $24 - (8 \div 2) + 6 =$  \_\_\_\_\_      4.  $(15 - 11) \times (25 \div 5) =$  \_\_\_\_\_

5.  $26 - 4 \times 5 + 2 =$  \_\_\_\_\_      6.  $15 \times (7 - 7) + (5 \times 2) =$  \_\_\_\_\_

7.  $(8 \div 4) \times (7 \times 0) =$  \_\_\_\_\_      8.  $5 \times (6 - 3) + 10 \div (8 - 3) =$  \_\_\_\_\_

9. **Explain It** Which is a true statement,  $5 \times 4 + 1 = 25$  or  $3 + 7 \times 2 = 17$ ? Explain your answer.
- 
- 

Insert parentheses to make each statement true.

10.  $25 \div 5 - 4 = 25$  \_\_\_\_\_

11.  $7 \times 4 - 4 \div 2 = 26$  \_\_\_\_\_

12.  $3 + 5 \times 2 - 10 = 6$  \_\_\_\_\_

13. **Strategy Practice** Insert parentheses in the expression  $6 + 10 \times 2$  so that:

a. the expression equals 32. \_\_\_\_\_

b. the expression equals  $(12 + 1) \times 2$ . \_\_\_\_\_

14. Solve  $(25 - 7) \times 2 \div 4 + 2$ .

A 18      B 11      C 6      D 5

15. Write two order-of-operation problems. Then trade with a classmate and solve the problems.
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