

Name \_\_\_\_\_

Skill: Two, Three and Four Digit Multiplication

Multiply the numbers. Use the letters beside your answers to fill in the blanks below and find the answer to the riddle.

$$\begin{array}{r} 1. \quad 25 \\ \times 32 \\ \hline \end{array} = g$$

$$\begin{array}{r} 2. \quad 56 \\ \times 49 \\ \hline \end{array} = n$$

$$\begin{array}{r} 3. \quad 27 \\ \times 86 \\ \hline \end{array} = l$$

$$\begin{array}{r} 4. \quad 42 \\ \times 16 \\ \hline \end{array} = i$$

$$\begin{array}{r} 5. \quad 95 \\ \times 40 \\ \hline \end{array} = c$$

$$\begin{array}{r} 6. \quad 125 \\ \times 302 \\ \hline \end{array} = r$$

$$\begin{array}{r} 7. \quad 237 \\ \times 394 \\ \hline \end{array} = u$$

$$\begin{array}{r} 8. \quad 498 \\ \times 174 \\ \hline \end{array} = t$$

$$\begin{array}{r} 9. \quad 512 \\ \times 643 \\ \hline \end{array} = e$$

$$\begin{array}{r} 10. \quad 345 \\ \times 194 \\ \hline \end{array} = h$$

$$\begin{array}{r} 11. \quad 4,286 \\ \times 157 \\ \hline \end{array} = d$$

$$\begin{array}{r} 12. \quad 3,012 \\ \times 817 \\ \hline \end{array} = v$$

$$\begin{array}{r} 13. \quad 1,984 \\ \times 358 \\ \hline \end{array} = o$$

$$\begin{array}{r} 14. \quad 5,749 \\ \times 257 \\ \hline \end{array} = s$$

$$\begin{array}{r} 15. \quad 9,437 \\ \times 112 \\ \hline \end{array} = a$$

What goes ho-ho woosh, ho-ho woosh?



1,477,493 1,056,944 2,744 86,652 1,056,944

3,800 1,056,944 93,378 800 66,930 86,652 672 2,744

1,056,944 37,750 329,216 2,460,804 710,272 2,322 2,460,804 672 2,744 800

672,902 710,272 710,272 37,750

Name \_\_\_\_\_

Skill: Adding and Subtracting Decimals

Complete the decimal addition and subtraction circuits. Start with the decimal in the upper left hand corner and move clockwise adding and subtracting. If added and subtracted correctly you should get back to the number you started with.

1.

3.12	+	5.3	=	<input type="text"/>
=	<input type="text"/>			-
18.527				6.01
-	<input type="text"/>			=
<input type="text"/>				=

2.

64.7	+	12.01	=	<input type="text"/>
=	<input type="text"/>			-
13.68				30.73
-	<input type="text"/>			=
<input type="text"/>				=

3.

7.62	+	14.18	=	<input type="text"/>
=	<input type="text"/>			-
133.17				6.07
-	<input type="text"/>			=
<input type="text"/>				=

4.

51.4	+	9.087	=	<input type="text"/>
=	<input type="text"/>			-
28.067				22.1
-	<input type="text"/>			=
<input type="text"/>				=

5.

39.07	+	22.5	=	<input type="text"/>
=	<input type="text"/>			-
8.417				16.089
-	<input type="text"/>			=
<input type="text"/>				=

6.

16.07	+	8.256	=	<input type="text"/>
=	<input type="text"/>			-
3.86				4.91
-	<input type="text"/>			=
<input type="text"/>				=

Name \_\_\_\_\_

Skill: Multiplying Decimals

Multiply the decimals. The correct answer to the multiplication problem is next to the correct answer to the trivia question.

1. About how many gallons of air pass through a person's lungs each day?

$$\begin{array}{r} 37.4 \\ \times 6.47 \\ \hline \end{array}$$

a. 24.798 = 68 gallons  
b. 2419.78 = 250 gallons  
c. 249.7 = 2,000 gallons  
d. 241.978 = 4,250 gallons

2. What is the longest recorded flight of a chicken?

$$\begin{array}{r} 7.04 \\ \times 8.5 \\ \hline \end{array}$$

a. 5,984 = 2 hours  
b. 5.984 = 6 minutes  
c. 59.84 = 13 seconds  
d. 598.4 = 15 minutes

3. How many rooms are there in America's White House?

$$\begin{array}{r} 27.42 \\ \times 7.6 \\ \hline \end{array}$$

a. 2,083.92 = 247 rooms  
b. 208.392 = 132 rooms  
c. 287.212 = 111 rooms  
d. 28.7212 = 98 rooms

4. What is the penalty for driving drunk in Sumatra?

$$\begin{array}{r} .047 \\ \times 1.6 \\ \hline \end{array}$$

a. 7.52 = loss of car  
b. .1587 = \$5,000 fine  
c. .0252 = 1 year in jail  
d. .0752 = loss of a hand

5. What was Paul Revere's actual occupation?

$$\begin{array}{r} 523.4 \\ \times 16.2 \\ \hline \end{array}$$

a. 8,741.08 = blacksmith  
b. 8,479.08 = silversmith  
c. 8479.28 = lantern maker  
d. 847.928 = judge

6. On what television program was the first toilet ever seen?

$$\begin{array}{r} 16.49 \\ \times .7 \\ \hline \end{array}$$

a. 11.543 = Leave it to Beaver  
b. 115.43 = The Brady Bunch  
c. 14.485 = Lucy  
d. 13.543 = Happy Days

7. What is the study of stupidity called?

$$\begin{array}{r} 20.16 \\ \times 47.3 \\ \hline \end{array}$$

a. 115.368 = phonology  
b. 203.587 = dumology  
c. 953.568 = monology  
d. 872.568 = stupology

8. How many times per year does the average person yawn?



$$\begin{array}{r} 6.203 \\ \times .95 \\ \hline \end{array}$$

a. 5.89285 = 2,500 times  
b. 4.12587 = 750 times  
c. 5.62385 = 325 times  
d. 8.62314 = 3,000 times

Name \_\_\_\_\_

Skill: Dividing Decimals

Divide the decimals. Match the division problem with the correct answer to find out the name of the fear.

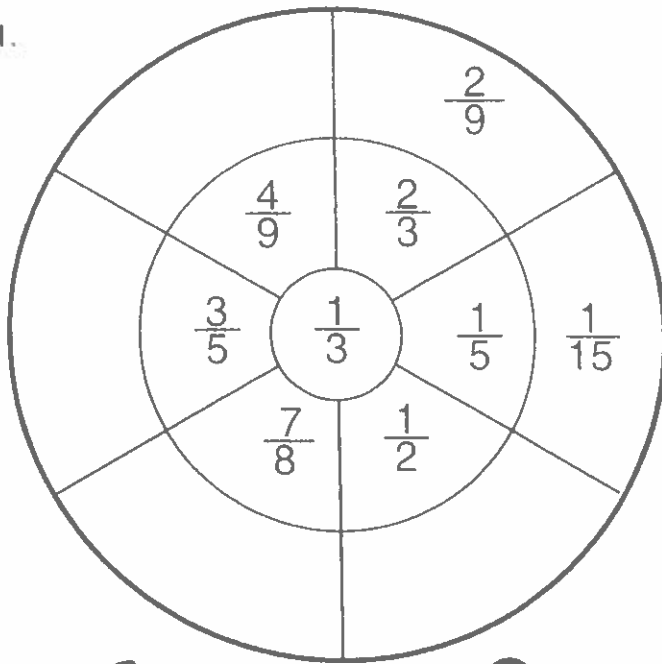
- |                            |                      |      |  |
|----------------------------|----------------------|------|--|
| 1. fear of chickens        | $123.54 \div 14.2 =$ | 3.2  | blennophobia   |
| 2. fear of people          | $108.12 \div 21.2 =$ | 4.7  | coulrophobia   |
| 3. fear of slime           | $14.72 \div 4.6 =$   | 3.4  | didaskaleinophobia   |
| 4. fear of food            | $165.6 \div 18.4 =$  | 8.5  | maniaphobia  |
| 5. fear of clowns          | $11.75 \div 2.5 =$   | 8.7  | alektorophobia   |
| 6. fear of going to school | $140.42 \div 41.3 =$ | 5.1  | anthropophobia  |
| 7. fear of the color white | $340.8 \div 16 =$    | 7.1  | rupophobia   |
| 8. fear of insanity        | $150.45 \div 17.7 =$ | 9    | cibophobia   |
| 9. fear of dreams          | $30.488 \div 4.12 =$ | 6.2  | sophophobia  |
| 10. fear of everything     | $65.33 \div 13.9 =$  | 21.3 | leukophobia  |
| 11. fear of dirt           | $132.06 \div 18.6 =$ | 7.4  | oneirophobia   |
| 12. fear of learning       | $64.48 \div 10.4 =$  | 4.7  | panophobia      |

Name \_\_\_\_\_

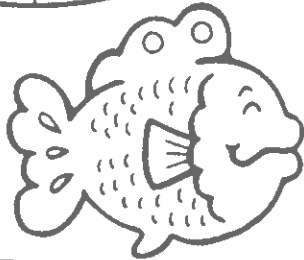
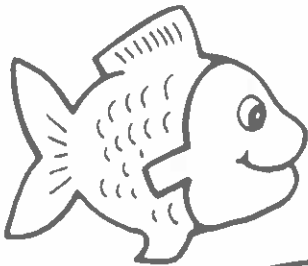
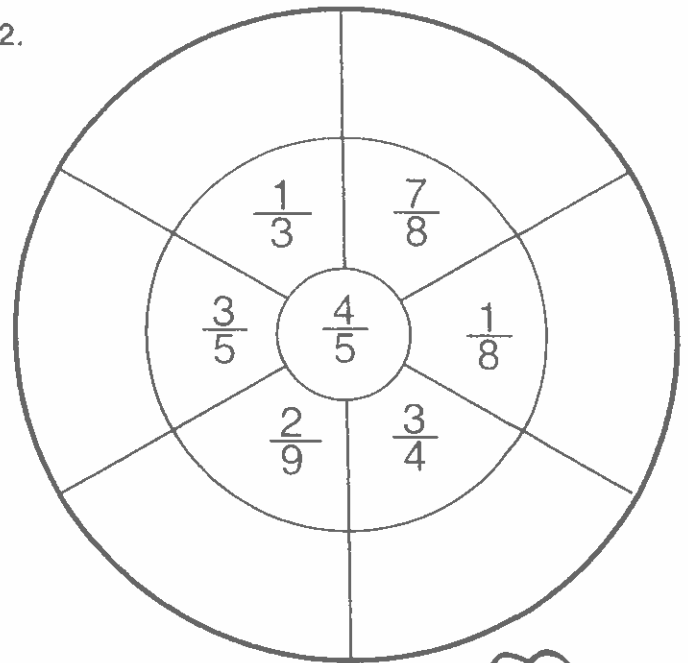
Skill: Multiplying Fractions

Multiply the fraction in the center of the fraction wheel by the fraction in the second ring of the fraction wheel. Write your answer in the outside ring of the wheel. Two of the problems in the first wheel have been done for you.

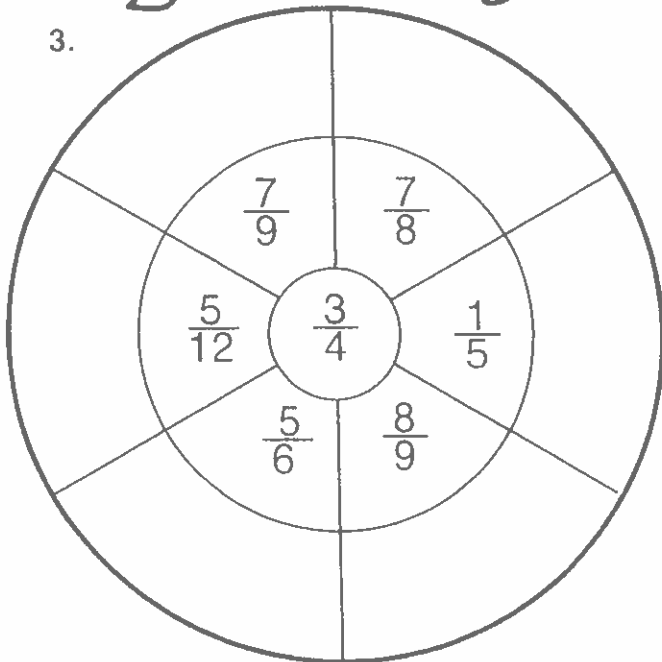
1.



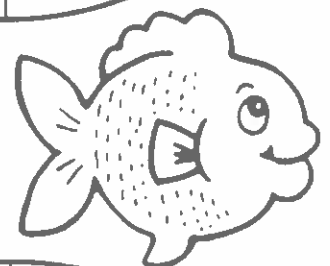
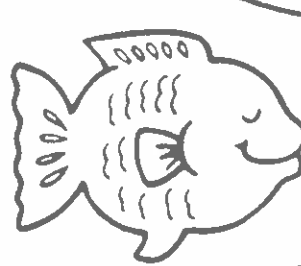
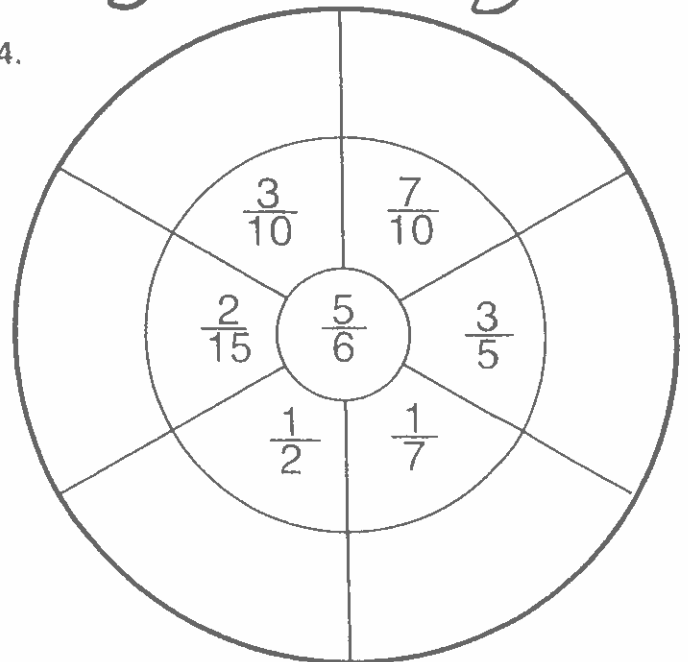
2.



3.



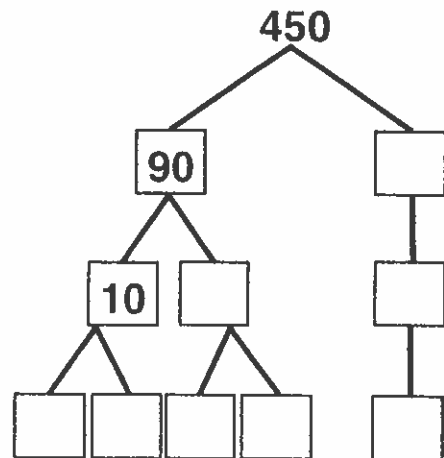
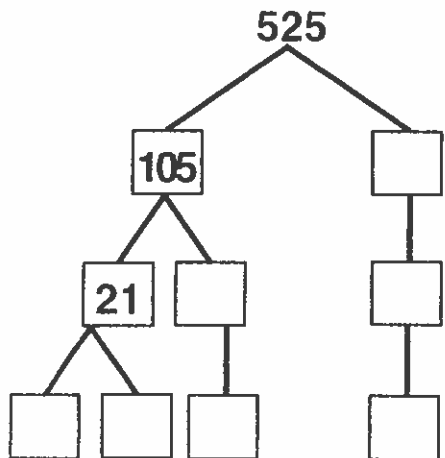
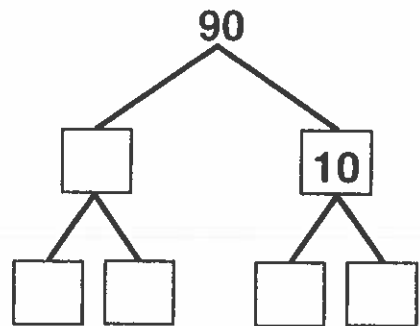
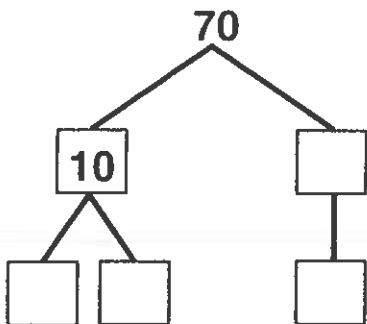
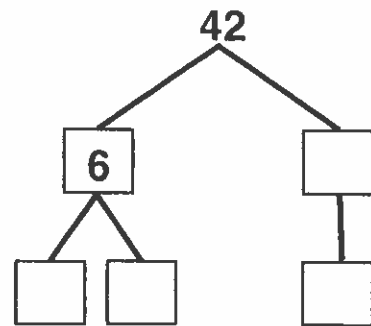
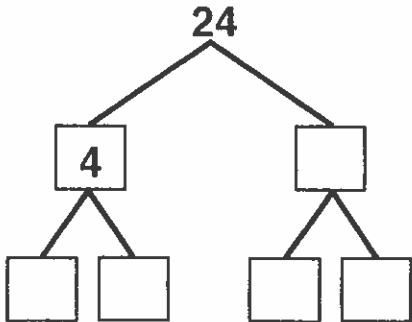
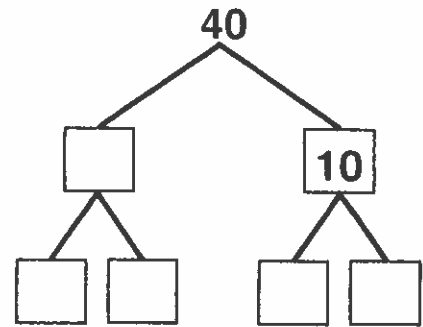
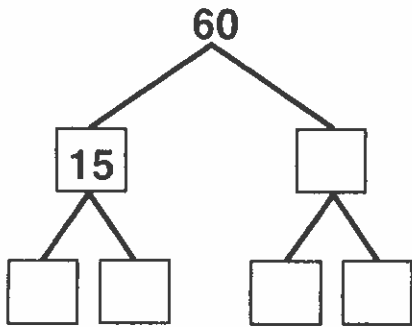
4.



Name \_\_\_\_\_

Skill: Prime Factorization

Complete each of the factor trees to find the prime factorization of the number at the top of the tree.



Name \_\_\_\_\_

Skill: Adding Fractions

Add the fractions. Match your answers with the numbers below the blanks in the answer to the riddle. Write the letter beside your answer in the blank to get the answer to the riddle.

1.  $\frac{5}{8} + \frac{1}{6} =$  = y

2.  $\frac{4}{5} + \frac{1}{3} =$  = a

3.  $\frac{4}{7} + \frac{3}{5} =$  = d

4.  $\frac{5}{6} + \frac{5}{12} =$  = l

5.  $\frac{1}{4} + \frac{3}{7} =$  = e

6.  $\frac{2}{3} + \frac{3}{5} =$  = i

7.  $\frac{2}{3} + \frac{2}{7} =$  = o

8.  $\frac{1}{4} + \frac{1}{9} =$  = h

9.  $\frac{2}{5} + \frac{1}{10} =$  = s

10.  $\frac{5}{9} + \frac{1}{3} =$  = v

11.  $\frac{1}{6} + \frac{3}{4} =$  = m

12.  $\frac{4}{9} + \frac{5}{18} =$  = b

13.  $\frac{4}{7} + \frac{3}{14} =$  = p

14.  $\frac{1}{6} + \frac{7}{12} =$  = r

What did one math book say to the other math book?

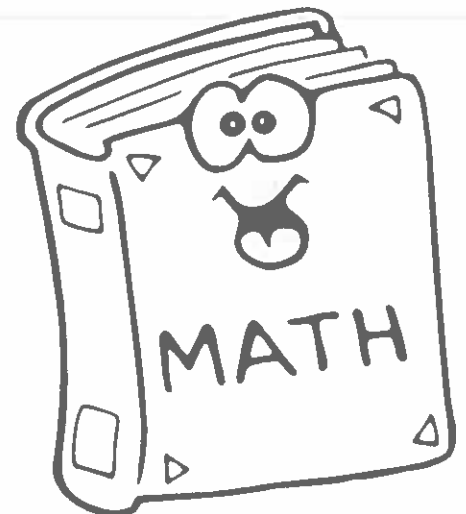
$\frac{13}{18}$     $\frac{20}{21}$     $\frac{19}{24}$

$1\frac{6}{35}$     $\frac{20}{21}$

$1\frac{4}{15}$

$\frac{13}{36}$     $1\frac{2}{15}$     $\frac{8}{9}$     $\frac{19}{28}$

$\frac{11}{14}$     $\frac{3}{4}$     $\frac{20}{21}$     $\frac{13}{18}$     $1\frac{1}{4}$     $\frac{19}{28}$     $\frac{11}{12}$     $\frac{1}{2}$



Name \_\_\_\_\_

Skill: Subtracting Fractions

In each circle there are three fractions. When arranged in the correct order, the three fractions make a true subtraction sentence. Write the fractions in the correct order on the line beside each circle. The first one has been done for you.

1.

$\frac{7}{12}$     $\frac{1}{4}$   
 $\frac{5}{6}$

$\frac{5}{6} - \frac{7}{12} = \frac{1}{4}$

2.

$\frac{7}{8}$     $\frac{1}{2}$   
 $\frac{9}{24}$

\_\_\_\_\_

3.

$\frac{4}{9}$     $\frac{2}{9}$   
 $\frac{2}{3}$

\_\_\_\_\_

4.

$\frac{3}{5}$     $\frac{7}{8}$   
 $\frac{11}{40}$

\_\_\_\_\_

5.

$\frac{1}{5}$     $\frac{1}{10}$   
 $\frac{3}{10}$

\_\_\_\_\_

6.

$\frac{4}{5}$     $\frac{2}{15}$   
 $\frac{2}{3}$

\_\_\_\_\_

7.

$\frac{1}{14}$     $\frac{5}{14}$   
 $\frac{3}{7}$

\_\_\_\_\_

8.

$\frac{5}{8}$     $\frac{1}{8}$   
 $\frac{3}{4}$

\_\_\_\_\_

9.

$\frac{7}{10}$     $\frac{7}{15}$   
 $\frac{7}{30}$

\_\_\_\_\_

10.

$\frac{8}{21}$     $\frac{5}{7}$   
 $\frac{1}{3}$

\_\_\_\_\_



Name \_\_\_\_\_

Skill: Beginning Algebra-Algebraic Expressions

Match each sentence with its algebraic expression.

- |                            |                   |
|----------------------------|-------------------|
| 1. a number minus 22       | $a + 52$          |
| 2. a number divided by 4   | $22 \times b = c$ |
| 3. a number plus 52        | $m \div 5$        |
| 4. a number times 10       | $n - 22$          |
| 5. the product of 22 and b | $c + 15$          |
| 6. 15 less than a number   | $x - 15$          |
| 7. m divided by 5          | $p \div 4$        |
| 8. 15 more than a number   | $10g$             |

Write an algebraic expression for each sentence. Use the letter "n" as the variable.

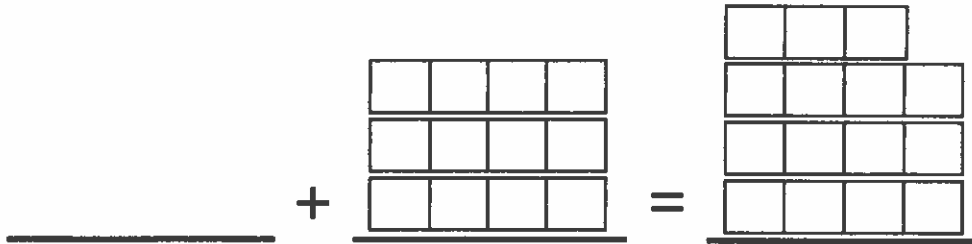
1. a number minus 17 \_\_\_\_\_
2. 7 times a number \_\_\_\_\_
3. 16 less than a number \_\_\_\_\_
4. a number divided by 12 \_\_\_\_\_
5. 42 less than a number \_\_\_\_\_
6. a number plus 43 \_\_\_\_\_
7. 23 more than a number \_\_\_\_\_
8. a number divided by 16 \_\_\_\_\_

Name \_\_\_\_\_

Skill: Beginning Algebra—Solving Equations

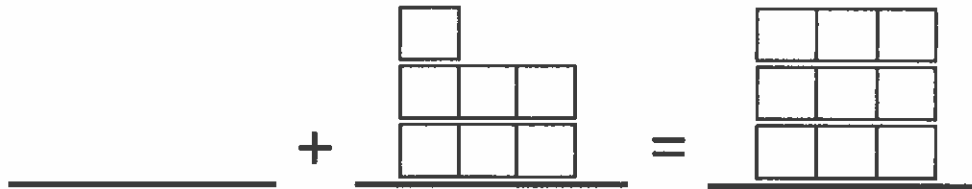
For each of the equations below, fill in the missing number of boxes so that each side will be equal. Write the value of the variable in the blank.

1.  $n + 12 = 15$



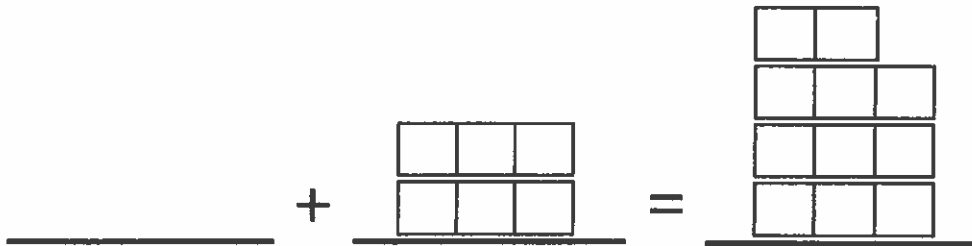
$n =$  \_\_\_\_\_

2.  $y + 7 = 9$



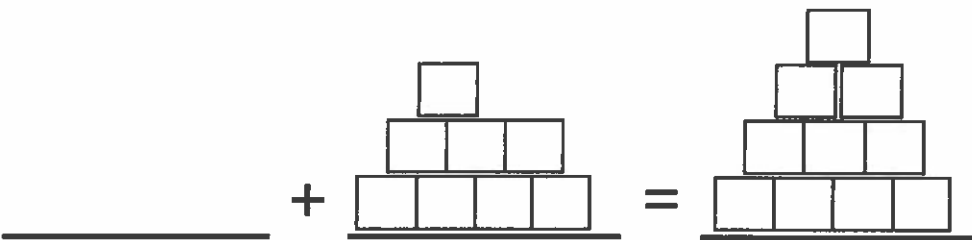
$y =$  \_\_\_\_\_

3.  $a + 6 = 11$



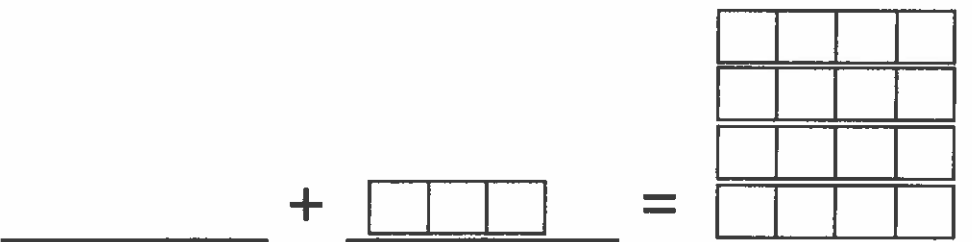
$a =$  \_\_\_\_\_

4.  $b + 8 = 10$



$b =$  \_\_\_\_\_

5.  $s + 3 = 16$



$s =$  \_\_\_\_\_

Name \_\_\_\_\_

Skill: Beginning Algebra—Variables

Match each algebraic equation with the value of its variable. Write the letter that is next to the value of the variable in the blank beside the equation. When you are finished, read the letters you have written from top to bottom to find the answer to the riddle.

What did the mouse call the best piece of art that he had painted?

- |                                   |        |
|-----------------------------------|--------|
| 1. $x + 2 = 16$ $x =$ _____       | O = 4  |
| 2. $18 + a = 20$ $a =$ _____      | E = 8  |
| 3. $15 - d = 11$ $d =$ _____      | E = 13 |
| 4. $z + 22 = 40$ $z =$ _____      | E = 15 |
| 5. $40 \div x = 8$ $x =$ _____    | P = 9  |
| 6. $n \times 3 = 24$ $n =$ _____  | A = 14 |
| 7. $p + 6 = 16$ $p =$ _____       | C = 19 |
| 8. $q - 3 = 12$ $q =$ _____       | U = 18 |
| 9. $t \times 6 = 36$ $t =$ _____  | E = 12 |
| 10. $m + 4 = 13$ $m =$ _____      | M = 2  |
| 11. $v \times 9 = 63$ $v =$ _____ | T = 10 |
| 12. $c + 12 = 25$ $c =$ _____     | I = 7  |
| 13. $f - 1 = 18$ $f =$ _____      | R = 6  |
| 14. $a + 2 = 14$ $a =$ _____      | S = 5  |

Name \_\_\_\_\_

Skill: Function Tables

Write the rule for each of the function tables.

1.

<b>n</b>	
2	8
4	10
8	14
10	16

rule: \_\_\_\_\_

2.

<b>s</b>	
3	9
4	12
5	15
10	30

rule: \_\_\_\_\_

3.

<b>a</b>	
28	21
20	13
17	10
7	0

rule: \_\_\_\_\_

4.

<b>r</b>	
64	8
56	7
32	4
24	3

rule: \_\_\_\_\_

5.

<b>p</b>	
6	36
7	42
8	48
9	54

rule: \_\_\_\_\_

6.

<b>t</b>	
50	38
42	30
24	12
15	3

rule: \_\_\_\_\_

7.

<b>m</b>	
2	18
4	36
6	54
8	72

rule: \_\_\_\_\_

8.

<b>g</b>	
1	16
7	22
10	25
30	45

rule: \_\_\_\_\_

9.

<b>f</b>	
56	8
35	5
28	4
14	2

rule: \_\_\_\_\_