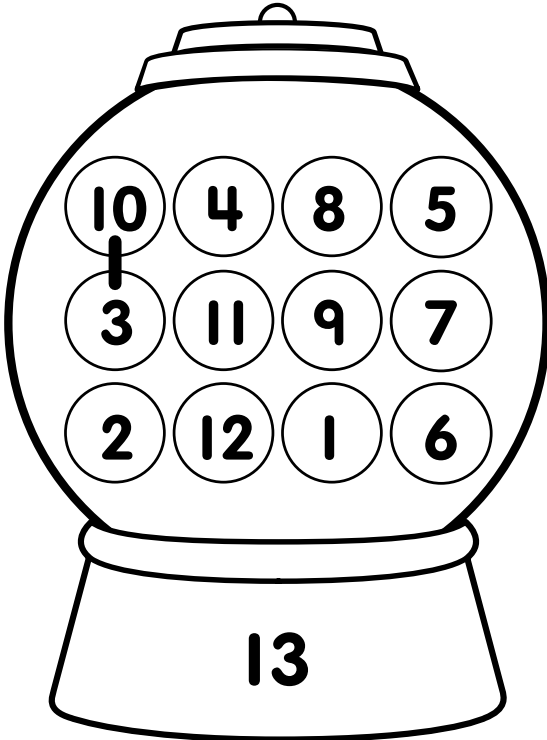


Double Bubble Addition

Can you empty each gumball machine?

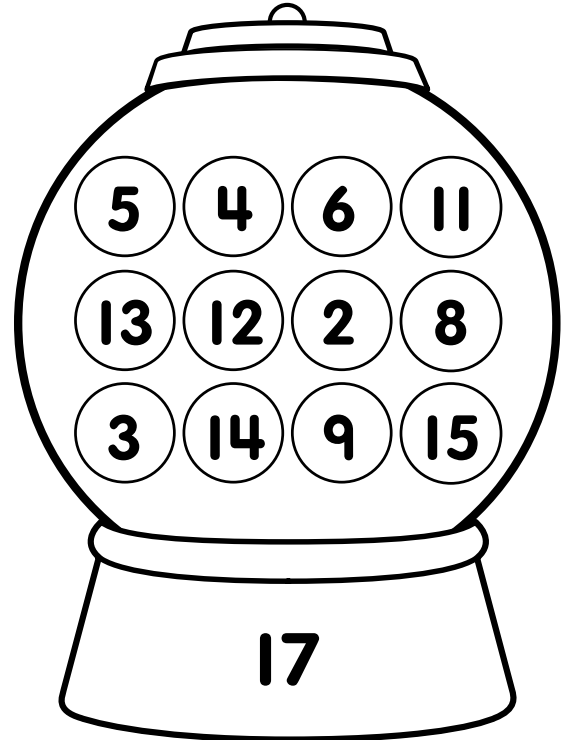
Draw lines to make pairs of gumballs that add up to the amount shown on the gumball machine. Pairs can be across, down, or diagonal. The first pair has been done for you.



A gumball machine with a target number of 13. The gumballs are arranged in a 3x4 grid. A vertical line is drawn through the gumballs with the numbers 10 and 3.

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

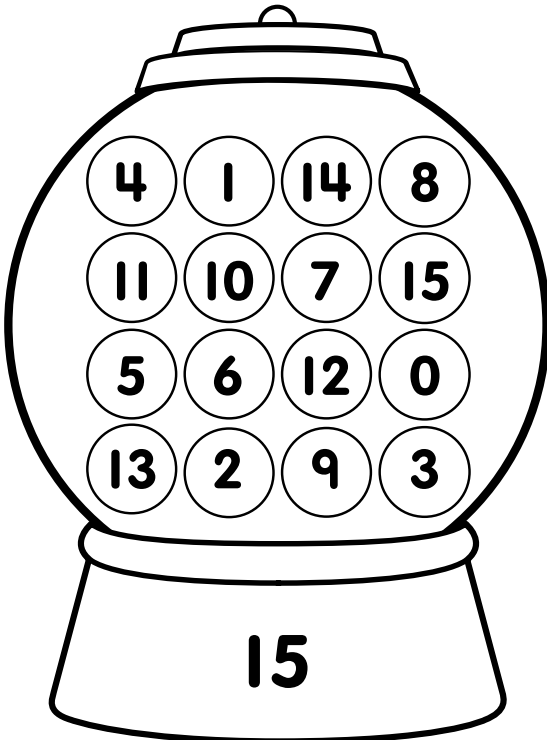
13



A gumball machine with a target number of 17. The gumballs are arranged in a 3x4 grid.

5	4	6	11
13	12	2	8
3	14	9	15

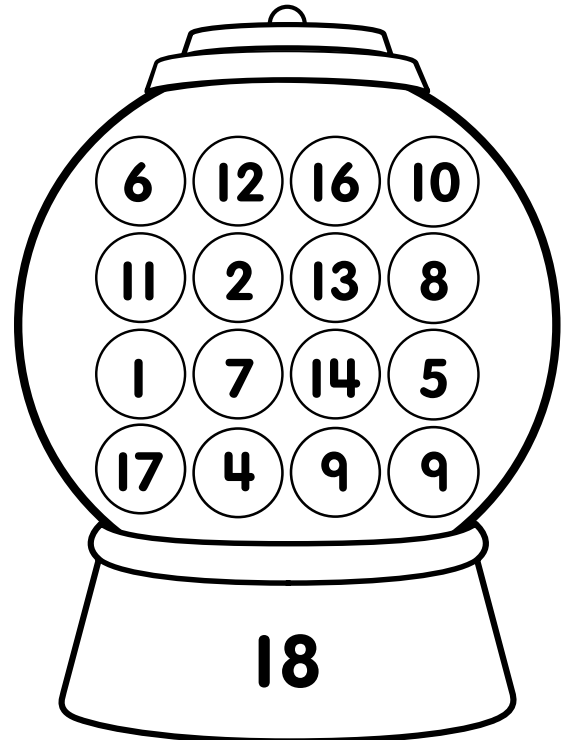
17



A gumball machine with a target number of 15. The gumballs are arranged in a 4x4 grid.

4	1	14	8
11	10	7	15
5	6	12	0
13	2	9	3

15



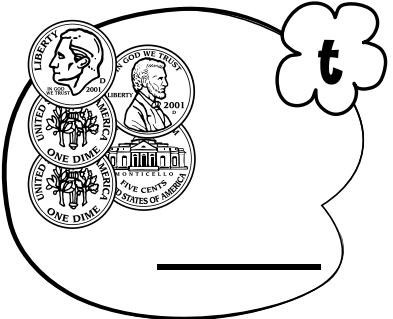
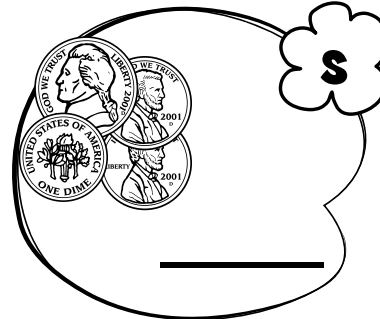
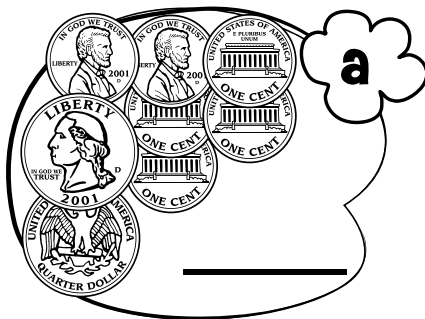
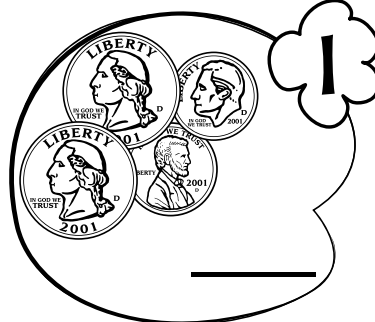
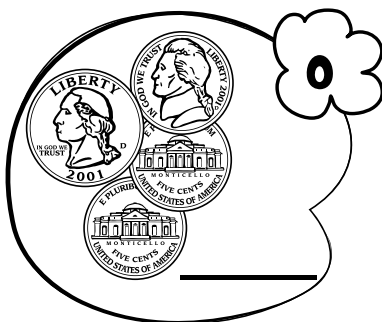
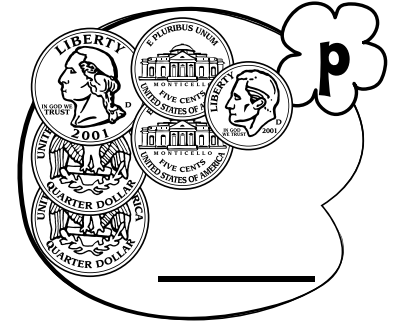
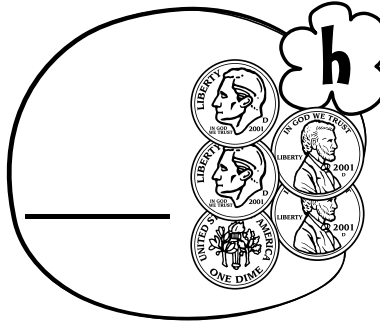
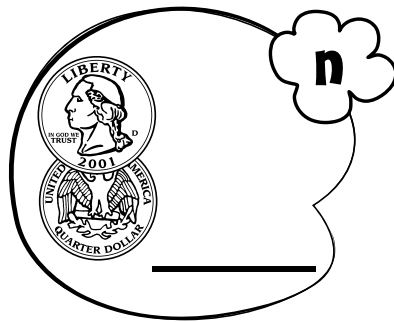
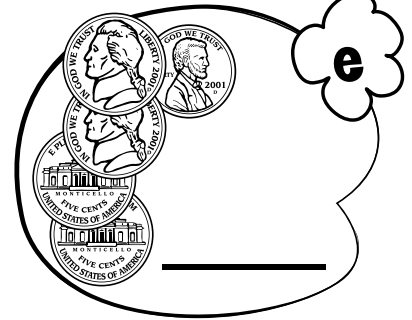
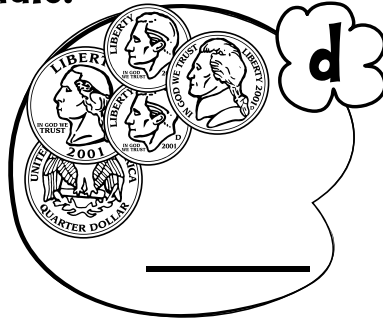
A gumball machine with a target number of 18. The gumballs are arranged in a 4x4 grid.

6	12	16	10
11	2	13	8
1	7	14	5
17	4	9	9

18

Hopping to Money

Write the value of each group of coins on the lily pad.
Use the code to answer the riddle.



What kind of shoes do frogs wear? _____

40¢ 95¢ 21¢ 50¢

36¢ 40¢ 56¢ 75¢ 17¢ 32¢ 40¢ 21¢ 17¢

Tree-mendous Multiplication

What kind of tree grows on your hand?

To find the answer to the riddle, solve each problem. Put an "X" on the apple if the answer is an EVEN number. Then write the leftover letters on the lines at the bottom in the same order as they appear in the puzzle.

The puzzle consists of 16 multiplication problems arranged in a tree shape. Each problem is on a card with a letter on an apple. The problems are:

f 22 $\times 3$	a 31 $\times 3$	o 20 $\times 7$	m 42 $\times 6$
p 21 $\times 5$	a 21 $\times 7$	p 54 $\times 2$	i 26 $\times 7$
l 23 $\times 3$	k 22 $\times 8$	m 13 $\times 9$	t 27 $\times 3$
e 56 $\times 5$	r 13 $\times 5$	e 17 $\times 3$	e 29 $\times 7$

Below the tree is a basket of apples.

Answer Key

Four gumball machines are shown, each with a grid of numbers and arrows indicating connections. Below each machine is a number representing the total count of connections.

- Machine 1: 13 connections
- Machine 2: 17 connections
- Machine 3: 15 connections
- Machine 4: 18 connections

A word search puzzle where letters are hidden in speech bubbles. The letters are: d, e, n, h, p, o, l, a, s, t.

What kind of shoes do frogs wear?

o p e n
40c 95c 21c 50c
t o a d s h o e s
36c 40c 56c 75c 17c 32c 40c 21c 17c

A grid of multiplication problems. Some are crossed out with an 'X' in a speech bubble.

X $\begin{array}{r} 22 \\ \times 3 \\ \hline 66 \end{array}$	a $\begin{array}{r} 31 \\ \times 3 \\ \hline 93 \end{array}$	X $\begin{array}{r} 20 \\ \times 7 \\ \hline 140 \end{array}$	X $\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$
p $\begin{array}{r} 21 \\ \times 5 \\ \hline 105 \end{array}$	a $\begin{array}{r} 21 \\ \times 7 \\ \hline 147 \end{array}$	X $\begin{array}{r} 54 \\ \times 2 \\ \hline 108 \end{array}$	X $\begin{array}{r} 26 \\ \times 7 \\ \hline 182 \end{array}$
l $\begin{array}{r} 23 \\ \times 3 \\ \hline 69 \end{array}$	X $\begin{array}{r} 22 \\ \times 8 \\ \hline 176 \end{array}$	m $\begin{array}{r} 13 \\ \times 9 \\ \hline 117 \end{array}$	t $\begin{array}{r} 27 \\ \times 3 \\ \hline 81 \end{array}$
X $\begin{array}{r} 56 \\ \times 5 \\ \hline 280 \end{array}$	r $\begin{array}{r} 13 \\ \times 5 \\ \hline 65 \end{array}$	e $\begin{array}{r} 17 \\ \times 3 \\ \hline 51 \end{array}$	e $\begin{array}{r} 29 \\ \times 7 \\ \hline 203 \end{array}$

What kind of tree grows on your hand?

a p a l m t r e e

Humorous Neighbors



Mr. Even and Mr. Odd are neighbors who love to tell jokes. If only their punch lines didn't get so mixed up! Can you help them find the punch line to each joke?

Solve each problem. If the answer is even, write the word in Mr. Even's house. If the answer is odd, write the word in Mr. Odd's house. Then unscramble the words to answer the jokes.

Why did the scientist put a knocker on her door?

Why did the football coach go to the bank?

Mr.
Even

Mr.
Odd

bell

$$\begin{array}{r} 257 \\ \times 14 \\ \hline \end{array}$$

wanted

$$\begin{array}{r} 78 \\ \times 39 \\ \hline \end{array}$$

the

$$\begin{array}{r} 220 \\ \times 37 \\ \hline \end{array}$$

get

$$\begin{array}{r} 97 \\ \times 47 \\ \hline \end{array}$$

to

$$\begin{array}{r} 52 \\ \times 29 \\ \hline \end{array}$$

a

$$\begin{array}{r} 273 \\ \times 13 \\ \hline \end{array}$$

win

$$\begin{array}{r} 380 \\ \times 25 \\ \hline \end{array}$$

to

$$\begin{array}{r} 305 \\ \times 31 \\ \hline \end{array}$$

quarterback

$$\begin{array}{r} 49 \\ \times 33 \\ \hline \end{array}$$

She

$$\begin{array}{r} 59 \\ \times 36 \\ \hline \end{array}$$

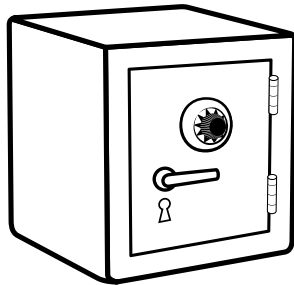
prize

$$\begin{array}{r} 125 \\ \times 54 \\ \hline \end{array}$$

no

$$\begin{array}{r} 542 \\ \times 63 \\ \hline \end{array}$$

Crack the Expression Safe



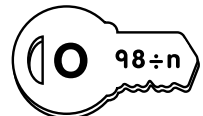
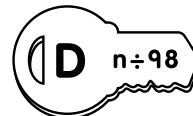
Crack the code to solve the riddle.

For each word phrase, circle the key with the matching expression. Then write the letter from each circled key in its place on the lines at the bottom.

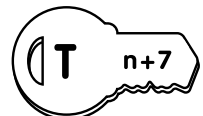
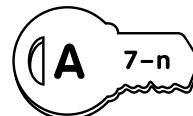
1. 4 times the number



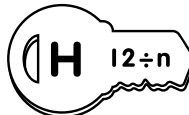
2. Students equally shared 98 cookies



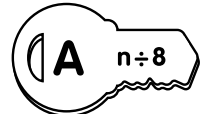
3. 7 pennies less than Kelsey has



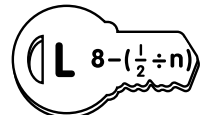
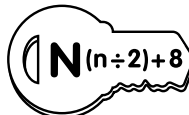
4. Total number of dishes divided into 12 boxes



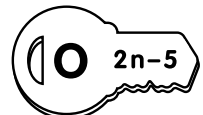
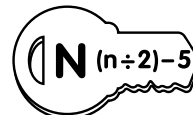
5. 8 pens more than Dylan has



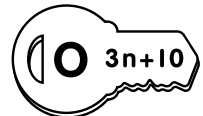
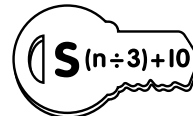
6. 8 stars less than half the number of Tracey's



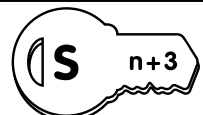
7. 5 cookies less than twice the number of Lynn's



8. 10 stickers more than three times the number of Ari's



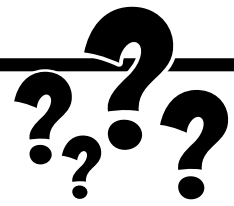
9. Three less than the number of Kelly's stickers



Where do termites go for a vacation?

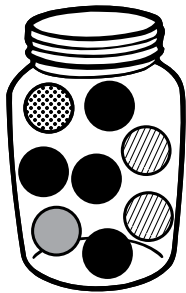
_____ - _____
 9 7 5 4 3 6 2 8 1

Name the Person



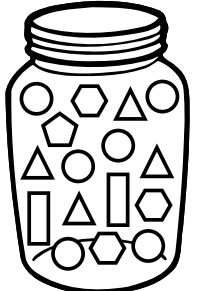
Look at the jar beside each puzzle. Write the probability of each event as a fraction in its simplest form. Then use the letter code at the bottom to find the names of famous figures.

1 I am a fictional character who is the star of a popular series of books. I go to a special school and have a very recognizable mark on my face.



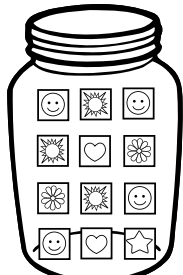
not gray $\frac{7}{8}$ H	spotted	gray or striped	not black or gray	black and striped

triangle or hexagon	not a circle	triangle	hexagon or pentagon	circle or rectangle	circle



2 I wrote several children's books, including *Stuart Little*, *Charlotte's Web*, and *The Trumpet of the Swan*.

heart and face	not a flower	not a star or sun	heart	flower or heart	heart or star	flower or face



Letter Code

$\frac{5}{6} = \mathbf{B}$ $\frac{5}{8} = \mathbf{O}$ $\frac{1}{2} = \mathbf{E}$ $\frac{1}{8} = \mathbf{A}$ $\frac{1}{6} = \mathbf{H}$ $\frac{1}{3} = \mathbf{I}$ $\frac{3}{4} = \mathbf{Y}$
 $\frac{7}{16} = \mathbf{P}$ $\frac{1}{4} = \mathbf{T}$ $\frac{7}{8} = \mathbf{H}$ $\frac{2}{3} = \mathbf{W}$ $\frac{3}{8} = \mathbf{R}$

Answer key

$\frac{7}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$
H	A	R	R	Y

$\frac{7}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$
P	O	T	T	E	R

$\frac{1}{2}$	$\frac{5}{6}$	$\frac{2}{3}$	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{2}$
E	B	W	H	I	T	E

Why did the scientist put a knocker on her door?

Mr. Even: She wanted to win the no bell prize.

Why did the football coach go to the bank?

Mr. Odd: to get a quarterback

bell	$\begin{array}{r} 257 \\ \times 14 \\ \hline 1,028 \\ + 2,570 \\ \hline 3,598 \end{array}$	wanted	$\begin{array}{r} 78 \\ \times 39 \\ \hline 702 \\ + 2,340 \\ \hline 3,042 \end{array}$	the	$\begin{array}{r} 220 \\ \times 37 \\ \hline 1,540 \\ + 6,600 \\ \hline 8,140 \end{array}$	get	$\begin{array}{r} 97 \\ \times 47 \\ \hline 679 \\ + 3,880 \\ \hline 4,559 \end{array}$
to	$\begin{array}{r} 52 \\ \times 29 \\ \hline 468 \\ + 1,040 \\ \hline 1,508 \end{array}$	a	$\begin{array}{r} 273 \\ \times 13 \\ \hline 819 \\ + 2,730 \\ \hline 3,549 \end{array}$	win	$\begin{array}{r} 380 \\ \times 25 \\ \hline 1,900 \\ + 7,600 \\ \hline 9,500 \end{array}$	to	$\begin{array}{r} 305 \\ \times 31 \\ \hline 305 \\ + 9,150 \\ \hline 9,455 \end{array}$
quarterback	$\begin{array}{r} 49 \\ \times 33 \\ \hline 147 \\ + 1,470 \\ \hline 1,617 \end{array}$	She	$\begin{array}{r} 59 \\ \times 36 \\ \hline 354 \\ + 1,770 \\ \hline 2,124 \end{array}$	prize	$\begin{array}{r} 125 \\ \times 54 \\ \hline 500 \\ + 6,250 \\ \hline 6,750 \end{array}$	no	$\begin{array}{r} 542 \\ \times 63 \\ \hline 1,626 \\ + 32,520 \\ \hline 34,146 \end{array}$

1. 4 times the number (D $4n$) (E $n+4$) (R $n \div 4$)
2. Students equally shared 98 cookies (E $n \times 98$) (D $n \div 98$) (O $98 \div n$)
3. 7 pennies less than Kelsey has (Y $n-7$) (A $7-n$) (T $n+7$)
4. Total number of dishes divided into 12 boxes (H $12 \div n$) (E $n \div 12$) (T $n \times 12$)
5. 8 pens more than Dylan has (L $n+8$) (G $8-n$) (A $n \div 8$)
6. 8 stars less than half the number of Tracey's (N $(n \div 2) + 8$) (W $(n \div 2) - 8$) (L $8 - (\frac{1}{2} \div n)$)
7. 5 cookies less than twice the number of Lynn's (E $5 - 2n$) (N $(n \div 2) - 5$) (O $2n - 5$)
8. 10 stickers more than three times the number of Ari's (U $10 - 3n$) (S $(n \div 3) + 10$) (O $3n + 10$)
9. Three less than the number of Kelly's stickers (E $3 - n$) (H $n - 3$) (S $n + 3$)

Where do termites go for a vacation?

H O L E Y - W O O D

9 7 5 4 3 6 2 8 1