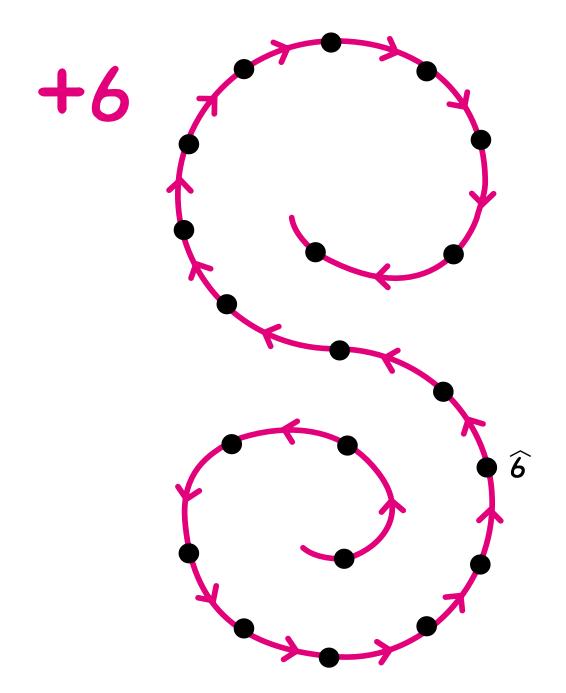
# Collection of Problems #5

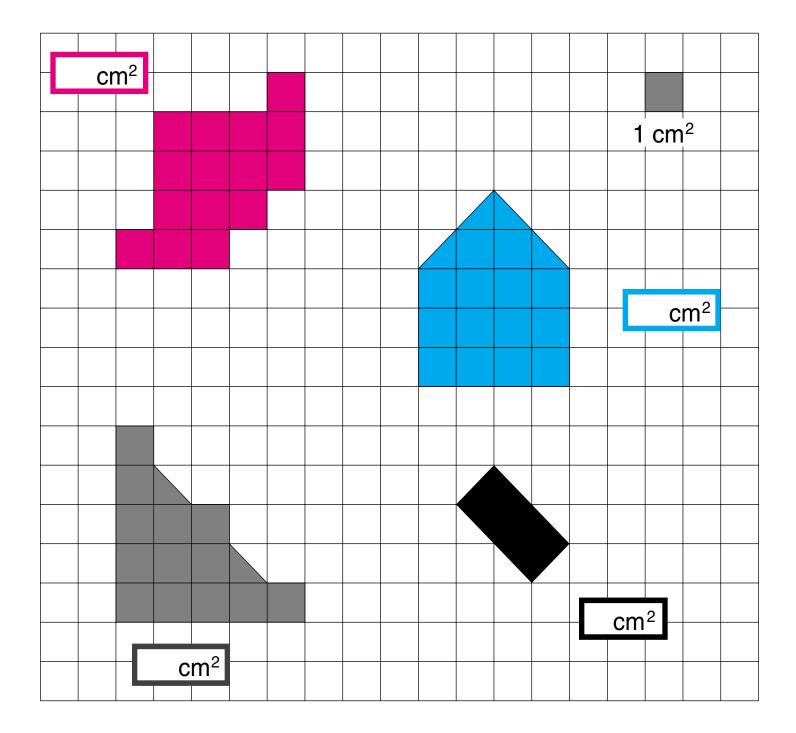
# Label the dots.



Calculate.

2.43		6.02	2.84
+ <u>8.14</u>		+ <u> 0.96</u>	+ <u>6.13</u>
50.24		67.60	74.66
+ <u>42.37</u>		+ <u>38.25</u>	+ <u>23.52</u>
6.58		10.75	8.68
+ <u>2.43</u>		+ 4.27	+ 5.19
	6.02 x 3		3.51 x 2

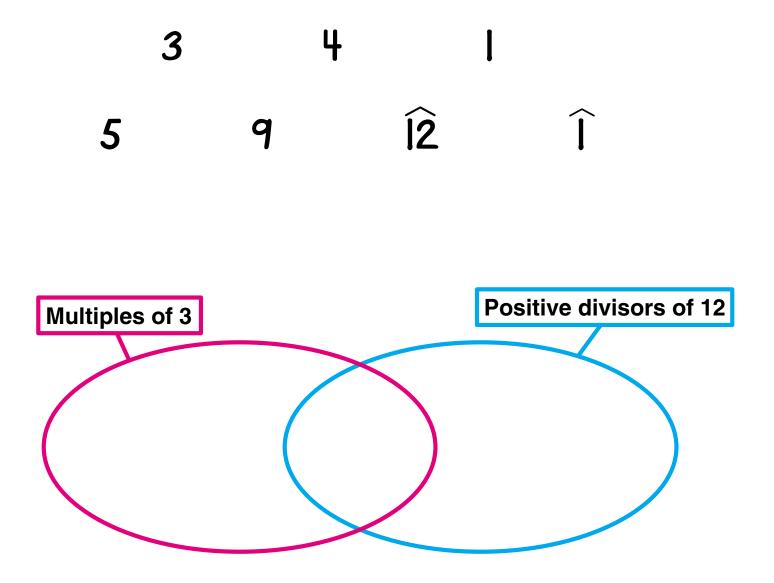
## Find the area of each shape.



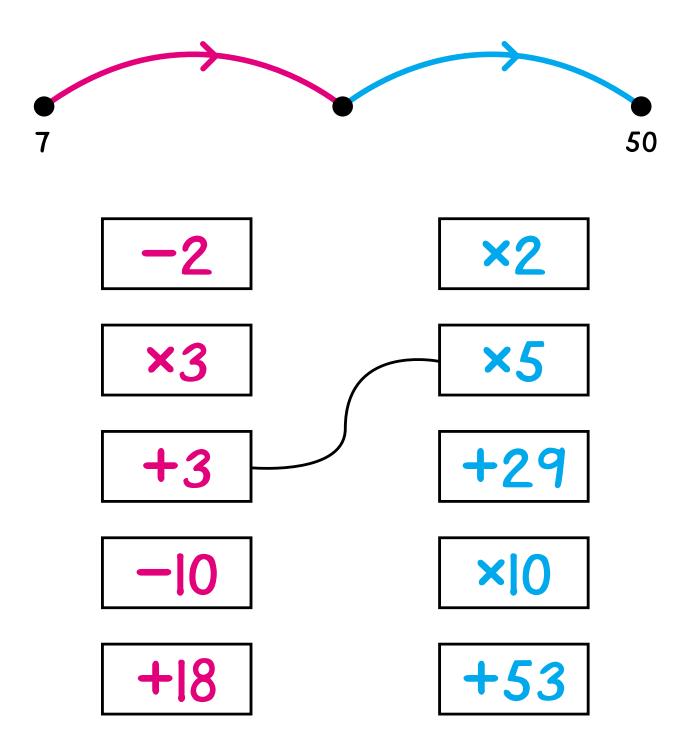
Look for patterns to help make these calculations easier.

58	-	24		
59	_	25	=	
60	-	26	=	
62	-	28	=	_34
62	_	29	=	
63	—	29	=	
73	_	29	=	
83	_	29	=	
83	_	49	=	

Put these numbers in the string picture.

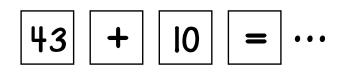


Pair the tags. One is done for you.



# How Close Can You Get?

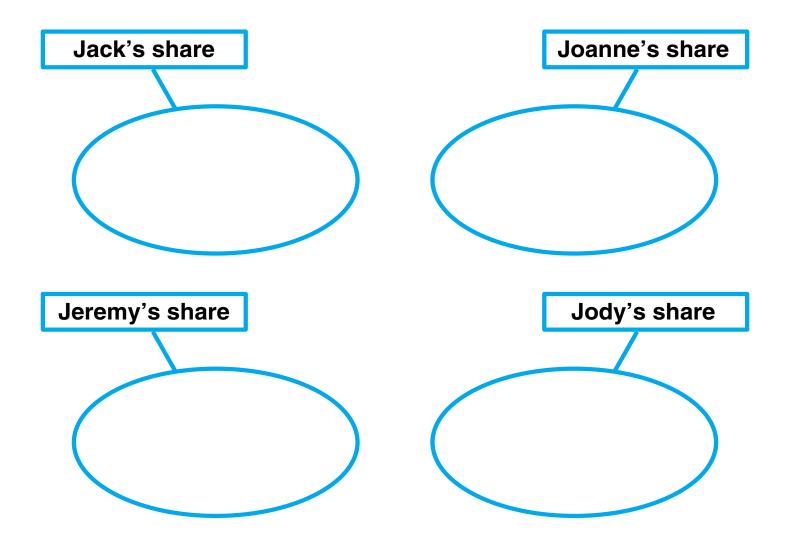
How close can you get to 106 by adding tens to 43? \_\_\_\_\_ How many tens did you add? \_\_\_\_\_



How close can you get to 251 by adding tens to 137? \_\_\_\_\_ How many tens did you add? \_\_\_\_\_

How close can you get to 306 by adding tens to 259? \_\_\_\_\_ How many tens did you add? \_\_\_\_\_

Jack, Joanne, Jeremy, and Jody want to share 700 baseball cards evenly. How many cards should each get?

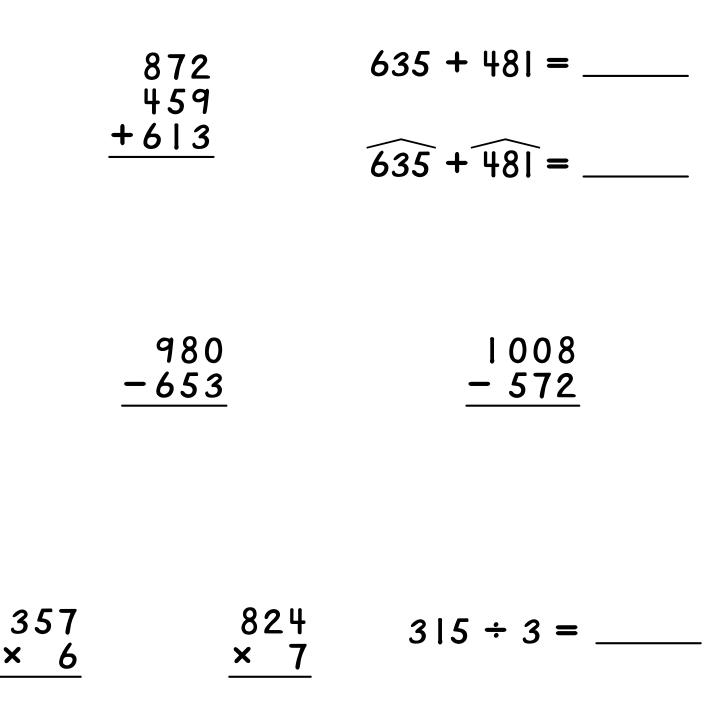


What fraction of the baseball cards does each person get? \_\_\_\_\_

Joanne gives her share to her brother Jack. What fraction of the baseball cards does Jack have now?

How many cards does Jack have now? \_\_\_\_\_

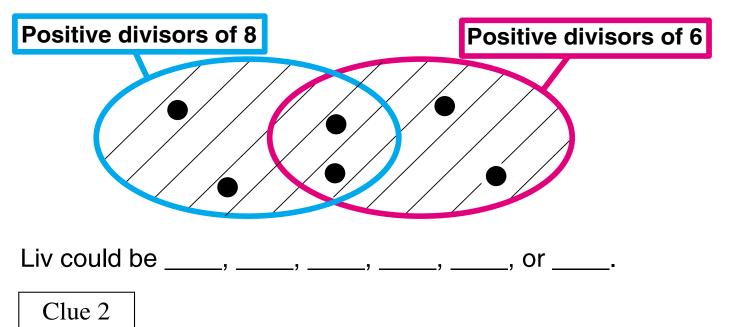
Complete the calculations.



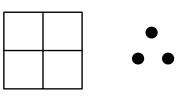
Liv is a secret number.

Clue 1

One of these six dots is for Liv. Label the dots.



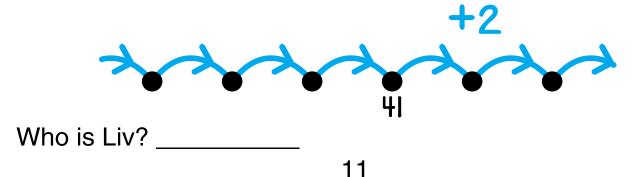
Liv can be put on this Minicomputer with three regular checkers on the same square.



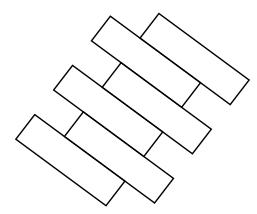
Liv could be \_\_\_\_\_ or \_\_\_\_.

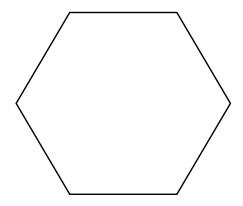
Clue 3

Liv is on the +2 arrow road that meets the number 41.

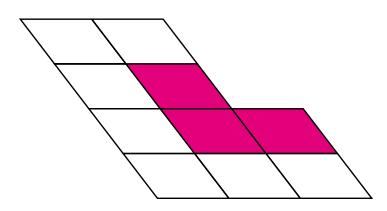


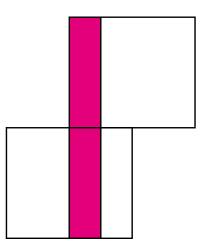
Color five-sixths  $\left(\frac{5}{6}\right)$  of each shape blue.



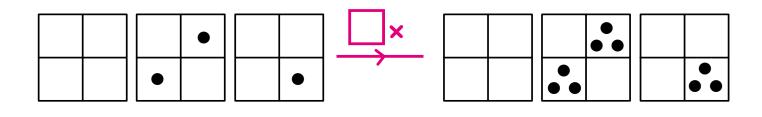


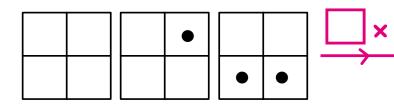
What fractional part of each shape is colored red?

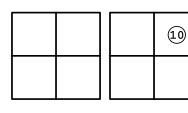


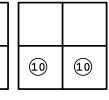


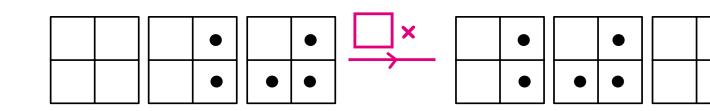
### Label the arrows.







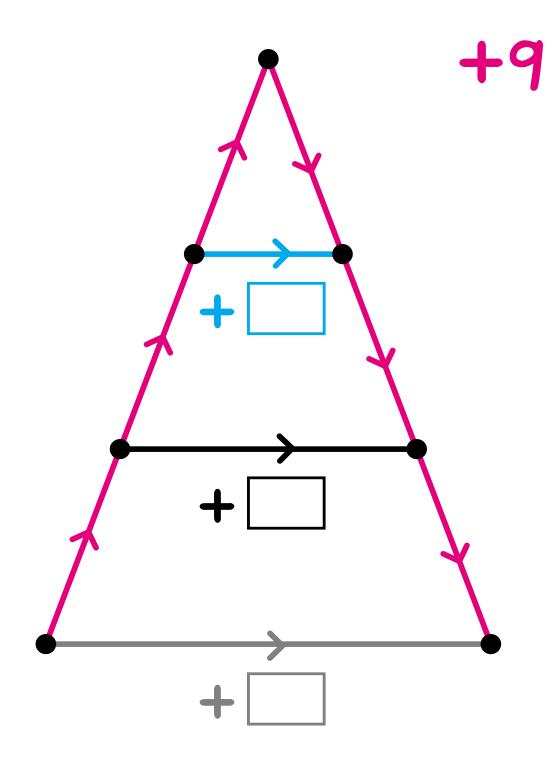




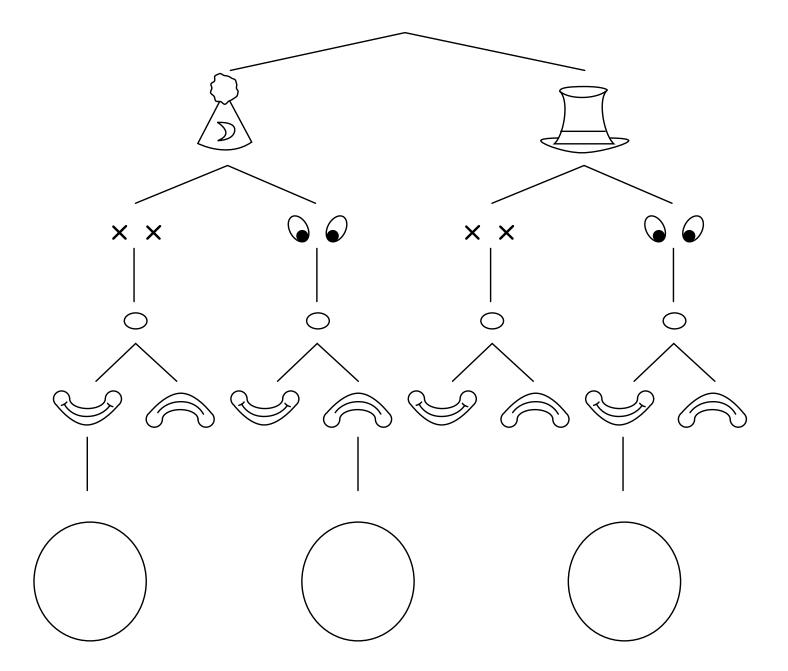




Label the blue, black, and gray arrows.



This tree shows some ways to design a clown's face. There are two choices of hats, two choices of eyes, one choice of nose, and two choices of mouths. Following the tree, draw three of the possible clown faces on the ovals provided.

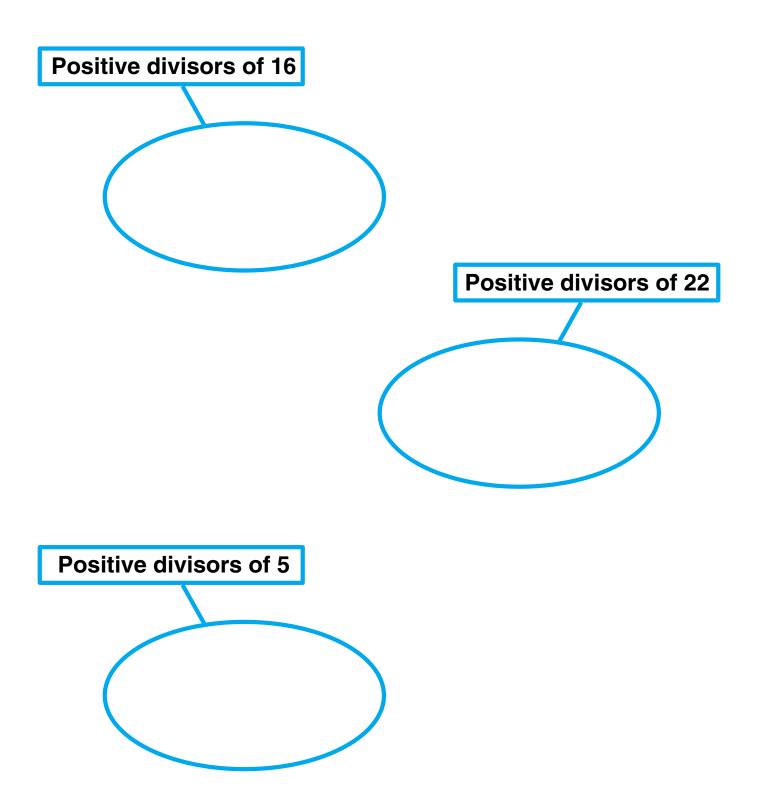


How many different clown faces could you draw with these choices?

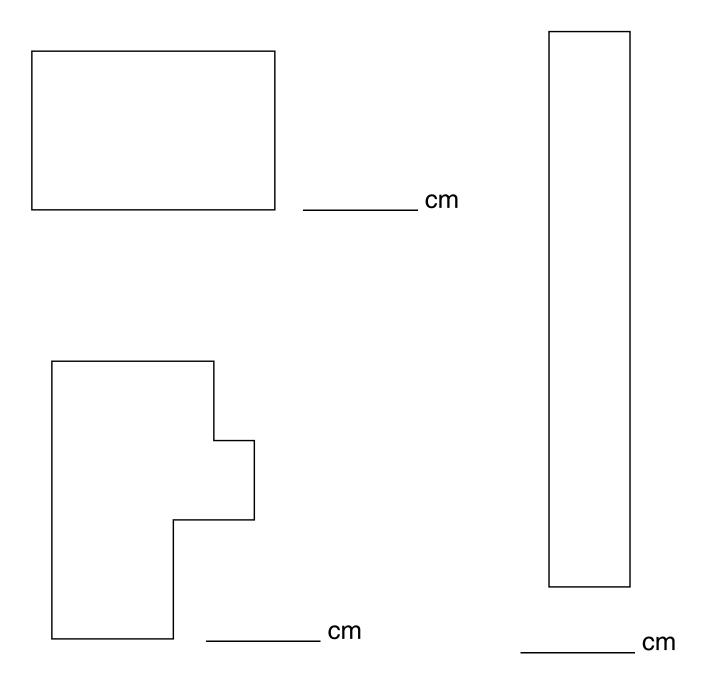
Fill in the boxes.

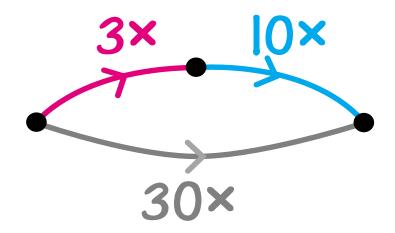
5 >	× 23	= 345	10	×	17	=	
16 >	× 23	=	2	×	17	=	
7 >	× 23		12	×	17	=	
18 >	× 23	=	20	×	17	=	
2 >	× 35	=	4	×	29	=	
20 >	× 35		40	×	29	=	
7、	× 8	=	6	×	9	=	
7 >	× 80	=	6	×	90	=	
70 >	× 8	=	60	×	9	=	

Write all the positive divisors of each number in the appropriate strings.



Use a ruler to find the perimeter of each shape.

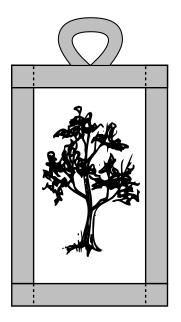




Do these calculations. This arrow picture can help you.

30	×	12	=	
30	×	45		
30	×	91	-	
30	×	80	=	
30 × 0.70 =				

Vanessa is making ribbon frames for some pictures. For each frame, she needs the following:

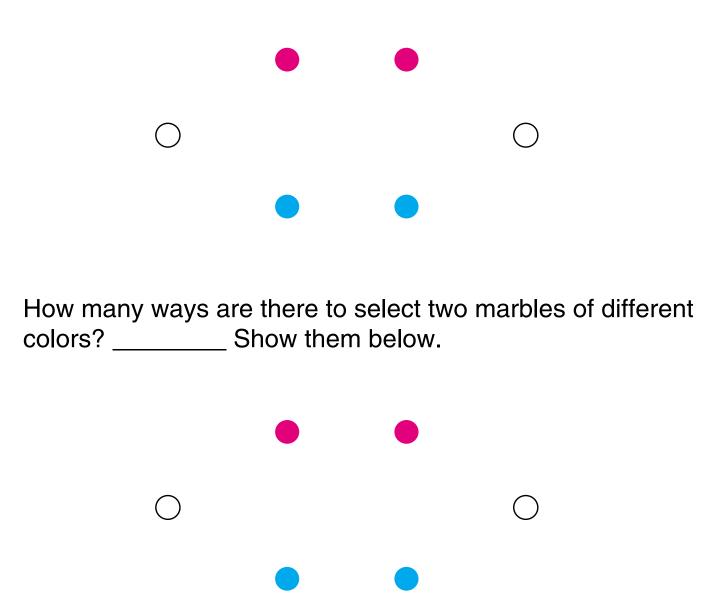


two pieces 4 cm long (top and bottom) two pieces 6 cm long (sides) one piece 3 cm long (loop)

Vanessa wants to make 14 frames. How many pieces of each length does she need to cut?

\_\_\_\_\_ pieces 4 cm long \_\_\_\_\_ pieces 6 cm long \_\_\_\_\_ piece 3 cm long

How many centimeters of ribbon does she need altogether?\_\_\_\_\_ Show your work below. How many ways are there to select two marbles of the same color from a set with two white, two red, and two blue marbles? \_\_\_\_\_ Show them below.

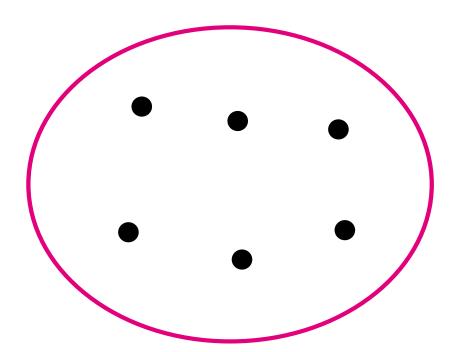


If two marbles are selected randomly, what is the probability that they will be the same color? \_\_\_\_\_

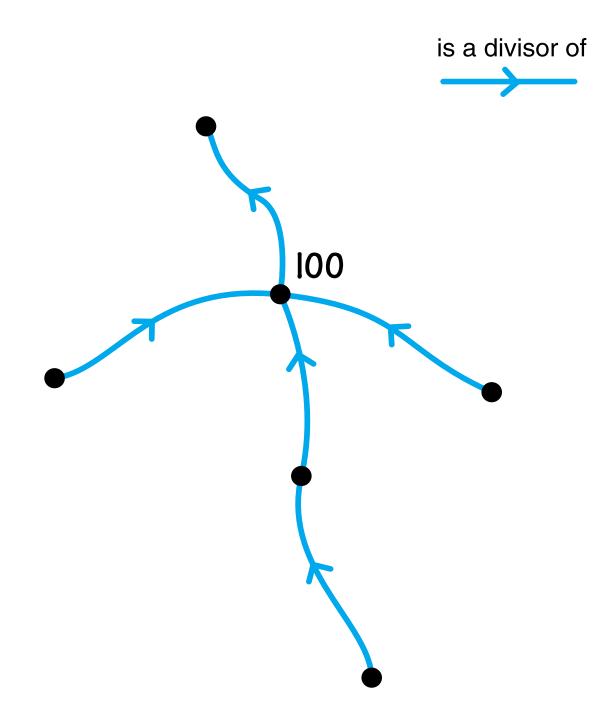
What is the probability that they will be different colors? \_\_\_\_\_

Label the six dots with whole numbers so that

- all the numbers are multiples of 7;
- at least one number is greater than 100; and
- exactly two numbers are between 50 and 80.



Label the dots. Many solutions are possible.



### **Carnival Rides**

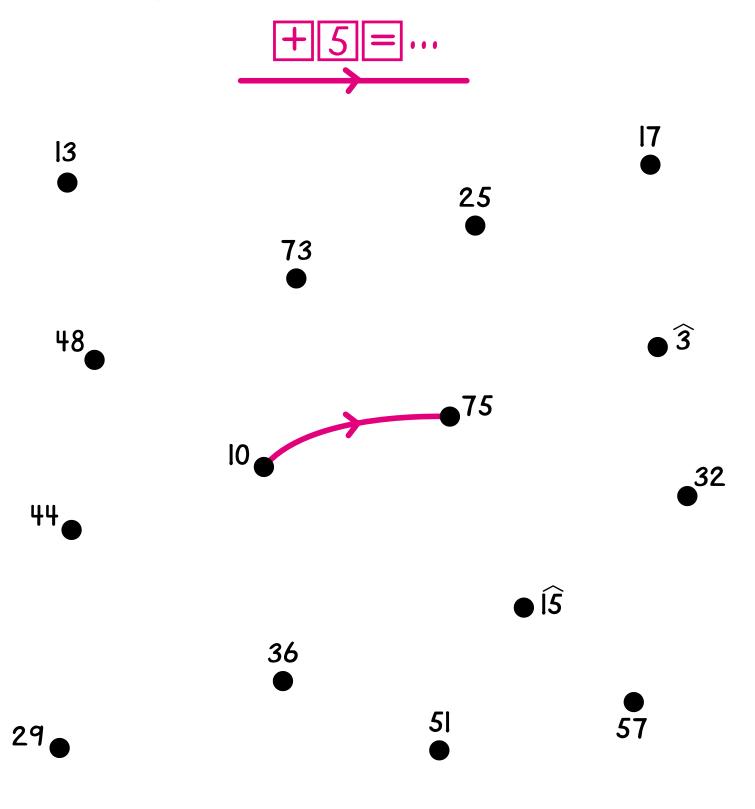
Cynthia has \$6.00 to spend on carnival rides. Most rides cost 75¢ and a few rides cost 45¢. How could she spend her money? Cynthia wants to have no more than 40¢ left over. Find several solutions.

75¢ Rides	45¢ Rides	Money Left Over

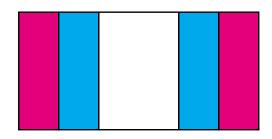
Cynthia chooses the same number of 75¢ rides and 45¢ rides. How many of each does she ride? \_\_\_\_\_

Does she have any money left over? \_\_\_\_\_

Draw as many red arrows as possible. One arrow is drawn for you.

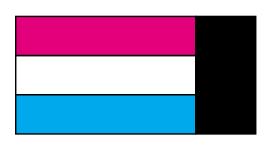


These are the two flags that the Around the World Club decided they liked best for their clubhouse. They will vote next week on which one to use.



One-third of this flag is white.

What fraction of the flag is blue? \_\_\_\_\_\_ What fraction of the flag is red? \_\_\_\_\_\_



One-fourth of this flag is black. What fraction of the flag is blue? \_\_\_\_\_ What fraction of the flag is red? \_\_\_\_\_ What fraction of the flag is white? \_\_\_\_\_ The red tag is one of these:

Multiples of 2					
Multiples of 3					
Multiples of 5					
Multiples of 10					
More than 10					
Less than 50					
Positive divisors of 12					
Positive divisors of 20					

The blue tag is one of these:

Multiples of 2

Multiples of 3

Multiples of 5

Multiples of 10

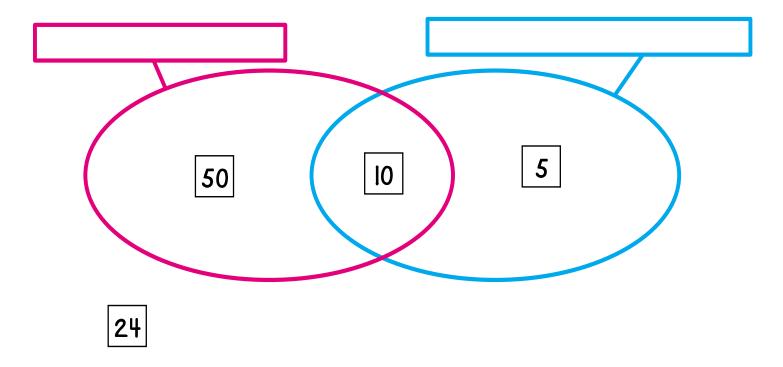
More than 10

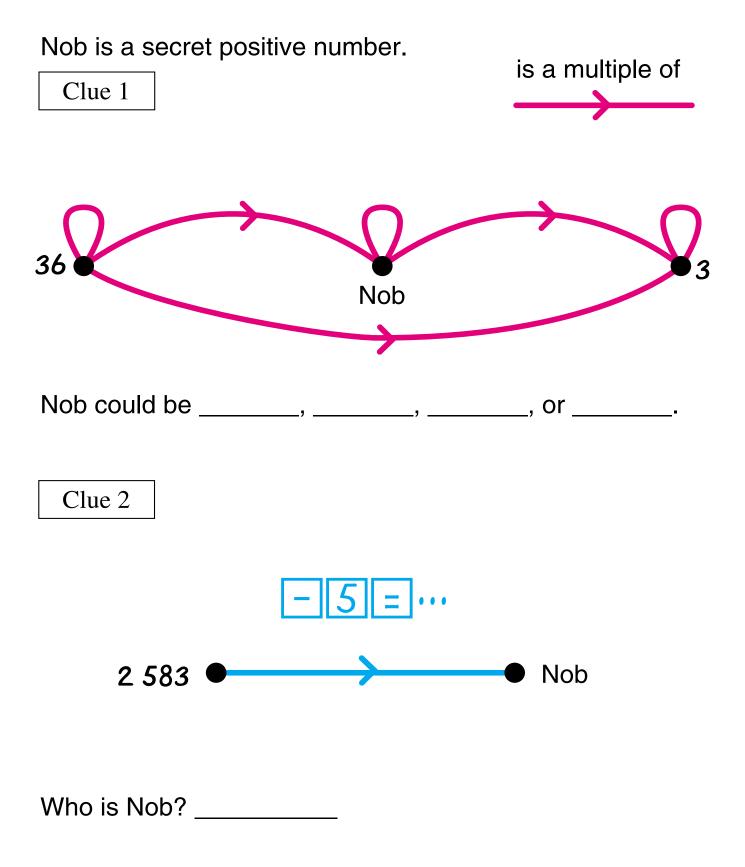
Less than 50

Positive divisors of 12

Positive divisors of 20

Label the strings.





## The 1948 Presidential Election

The chart below gives the results of the 1948 election for the president of the United States.

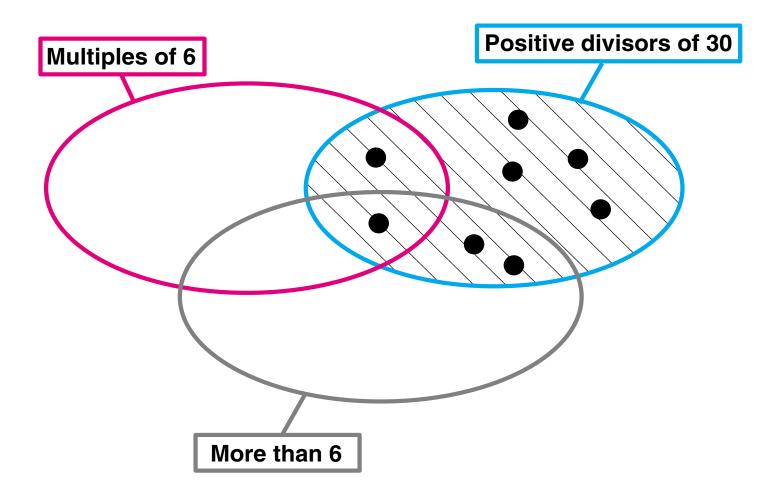
Presidential Candidate	Party	Popular Votes	Electoral Votes	
Harry S. Truman	Democratic	24 179 345	303	
Thomas E. Dewey	Republican	21 991 291	189	
J. Strom Thurmond	States' Rights	1 176 125	39	
Henry A. Wallace	Progressive	1 157 326		

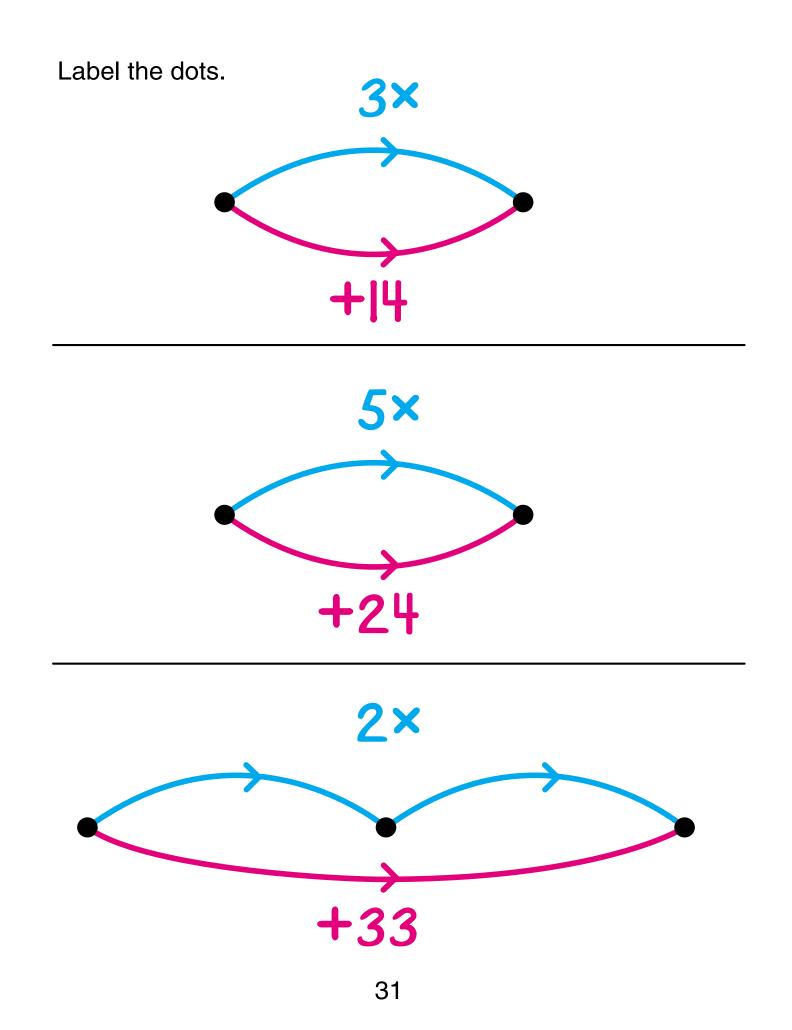
- 1. Who received the most popular votes? \_\_\_\_\_
- 2. Who received the most electoral votes? \_\_\_\_\_
- 3. Did Truman receive more than half of the popular vote? \_\_\_\_\_

Did he receive more than half of the electoral votes? \_\_\_\_\_

Explain your answers below.

30 has exactly eight positive divisors. Label their dots in this string picture.





Calvin and Pat work at the Snip and Curl beauty shop. Calvin cuts hair and Pat gives permanents. Last week they had 108 customers. Calvin bragged to Pat, "I gave haircuts to three times as many people as you gave permanents." How many customers got haircuts from Calvin? \_\_\_\_\_\_ How many customers got permanents from Pat? \_\_\_\_\_

Explain your solution.

Try to find another solution to this problem.

Explain your solution.