

Name: \_\_\_\_\_

Complete each pattern, using the same rule. Write what the rule is.

37, 48, 59, \_\_\_\_\_, 81, 92, 103, 114, 125

56, 67, 78, 89, \_\_\_\_\_, \_\_\_\_\_, 122, 133, 144, \_\_\_\_\_

Find the missing numbers. These both have the same rule. What is the rule?

If

$$1, 12 = 13$$

$$2, 16 = 18$$

$$3, 21 = 24$$

$$4, 26 = 30$$

Then

$$5, 28 = ?$$

If

$$8, 7 = 15$$

$$9, 12 = 21$$

$$10, 16 = 26$$

$$11, 20 = 31$$

Then

$$12, 23 = ?$$

Name: \_\_\_\_\_

Cross off the number that does NOT belong.

7, 7, 9, 12, 11, 17, 13, 16, 22, 15, 27, 17, 32, 19

Why does \_\_\_\_\_ not belong in the pattern?

Cross off the number that does NOT belong.

21, 21, 36, 27, 26, 51, 31, 66, 36, 81, 41, 96, 46, 111

Why does \_\_\_\_\_ not belong in the pattern?

Name: \_\_\_\_\_

Complete each pattern, using the same rule. Write what the rule is.

5, 7, 9, 11, \_\_\_\_\_, \_\_\_\_\_, 17, 19

7, \_\_\_\_\_, \_\_\_\_\_, 13, 15, 17, \_\_\_\_\_, \_\_\_\_\_, 23, 25

\_\_\_\_\_, 13, 15, 17, 19, 21, \_\_\_\_\_, \_\_\_\_\_, 27

Find the missing numbers. These both have the same rule. What is the rule?

If

$$1, 6 = 7$$

$$2, 8 = 10$$

$$3, 13 = 16$$

$$4, 15 = 19$$

Then

$$5, 18 = ?$$

If

$$8, 12 = 20$$

$$9, 15 = 24$$

$$10, 17 = 27$$

$$11, 20 = 31$$

Then

$$12, 22 = ?$$

Name: \_\_\_\_\_

Fill in the missing  
addition or subtraction  
operations.

$$6 \text{ \_\_\_ } 3 \text{ \_\_\_ } 2 = 1$$

$$4 + 5 + 3$$

Fill in the missing  
addition or subtraction  
operations.

$$5 \text{ \_\_\_ } 4 \text{ \_\_\_ } 1 \text{ \_\_\_ } 5 = 5$$

3 more than 543

Write this number:  
9 hundreds, 8 thousands, 3  
tens, 5 ones

double 200

Write this number:  
8 hundreds, 3 tens, 6  
thousands

D, J, E, K, F, L, G, M,  
\_\_\_\_\_, N

double 50

40, 45, 50, 55, 60, 65,  
70, 75, \_\_\_\_\_, 85

$$\begin{array}{r} 249 \\ - 68 \\ \hline \end{array}$$

$$8 - 6 + 3 - 3$$

14, 16, 18, \_\_\_\_\_, 22,  
24, 26, 28

$$\begin{array}{r} 478 \\ + 27 \\ \hline \end{array}$$

$$8 + 6 - 1 - 4 - 4$$

Name: \_\_\_\_\_

There are 25 students in Ms. Hernandez's class. They are planting flowers. The flowers are in front of the school. They have 149 plants. They have planted 90 of them. How many more are left to plant?

Alex counted the cows in the field. There were 8 brown cows, 3 white cows, and 15 black and white cows. How many were there in all?

Jenna had 7 books about frogs. She received more books for her birthday. Now she has 18 books about frogs. How many books about frogs did she receive for her birthday?

$$\begin{array}{r} 48 \\ - 7 \\ \hline \end{array}$$

It is 7:42 when Sarah leaves her house. She arrives at school at 8:07. How much time has passed?

$$\begin{array}{r} 68 \\ + 6 \\ \hline \end{array}$$

The Catman takes care of cats without homes. Yesterday he had 15 cats. People brought more cats to him. Today he has 23 cats. How many cats did people bring to him?

Jemima Puddle-Duck had 54¢. She bought a bag of corn for 28¢. How much money did she have left?

Sara planted 230 tulip bulbs. She planted 118 bulbs for red tulips. The rest of the bulbs were for yellow or purple tulips. How many bulbs were not for red tulips?

$$\begin{array}{r} 78 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ - 19 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ - 85 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ + 64 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ + 21 \\ \hline \end{array}$$

Name: \_\_\_\_\_

Mrs. Martin ordered a box of butterfly posters for her class. On the outside of the box were five numbers: 427, 737, 531, 444, and 668. A note on the top of the box said that the number of posters was greater than 450 but less 650. How many posters are in the box?

Eric and Peter planted pumpkins to sell to people for their autumn celebrations. Their garden has 5 sides. The sides measure 6 feet 5 inches, 8 feet 6 inches, 8 feet 11 inches, 9 feet 2 inches, and 7 feet 8 inches. What is the perimeter of their garden?

Write this number:  
3 tens, 5 thousands

17, 34, \_\_\_\_\_, 68, 85,  
102

6 more than 746

Ms. Jackson built a low fence around her beehives. She used 30 feet of fencing. How many yards of fencing did she use?

Emma likes to paint. She paints for 35 minutes every day. How many minutes does she paint in 4 days?

Adam is buying a box of rabbit food. The box is 5 inches high, 3.5 inches wide, and 3 inches deep. What is the volume of the box?

Kevin ate  $\frac{1}{3}$  of his dessert at the Celebrate! Day party. Andy ate  $\frac{3}{4}$  of his dessert. Which boy ate more of his dessert?

A box of 10 pieces of fried chicken costs \$5.58. A carton of 15 pieces of fried chicken costs \$7.94. How much more does a carton cost than a box?

National Jelly Bean Day is 5 days after Stress Awareness Day. Stress Awareness Day is on April 17. On what date is National Jelly Bean Day?

Name: \_\_\_\_\_

Squeaky Squirrel played all summer. He didn't gather nuts for the winter. When his grandfather, old Samuel Squirrel told him to quit playing, Squeaky said, "I have plenty of time. I'll gather nuts later." Then one day it snowed. There was no more time to gather nuts. Squeaky had only 151 nuts to last all winter! His grandfather had 425 nuts in his storehouse. How many more nuts did Samuel have than Squeaky?

Mr. Rodriguez, our mailman, brought us three letters Monday. On Tuesday he brought us one letter and two packages. On Wednesday he brought us four letters. On Thursday he brought us one package. On Friday he brought us five letters. On Saturday he brought us two letters. How many letters in all did Mr. Rodriguez bring us this week?

$$73 + 73 + 73 + 73 + 73$$

Change this into a multiplication problem.

$$\underline{\quad} \times \underline{\quad}$$

How many hours are there from 9 a.m. to 4 p.m.?

If you know  
 $73 + 25 = 98$   
Then what is  $73 + 24$ ?

Rose collects cards with jokes on them. She had 46 cards. She gave 16 cards to Anne and 15 cards to Alex. How many cards does she have left?

Mary made some cookies. She made a wild guess about the time to bake them. She left them in the oven for 45 minutes. They all burned. The recipe said they should bake for 15 minutes. How many minutes too long were they in the oven?

Peter wanted to build a doghouse for his puppy. He measured the sides and the end. The sides were 27 inches long and the end was 16 inches long. How much longer are the sides than the end?

$$5 - 3 = \boxed{\quad}$$

$$4 + 4 = \boxed{\quad}$$

$$5 + 6 = \boxed{\quad}$$

$$6 + 8 = \boxed{\quad}$$

Name: \_\_\_\_\_

There were 37 peas, 24 pieces of corn, and 12 pieces of broccoli on April's plate. She ate 23 peas, 13 pieces of corn, and 6 pieces of broccoli. How many peas were left on her plate?

Emma cut eight slices of bologna into small pieces to use on crackers. She cut each slice into four small pieces. How many small pieces of bologna did she have?

Holly picked 46 cherries Monday. She picked 35 cherries Tuesday. She needs 120 cherries for the cherry pie. How many more cherries does she need to pick?

6 less than 656

J, L, N, P, R, T,  
\_\_\_\_\_, X, Z

How many hours are there from 8 a.m. to 5 p.m.?

Robert is learning to cook. Today he is making chocolate cakes for his best friend's birthday party. There will be 48 people at the party. Each cake will serve 8 people. How many cakes should he make?

There are 34 floors in the skyscraper. There are 9 offices on each floor. How many offices are in the skyscraper?

There was a bike race during Be Kind to Humankind Week. The race was 5.2 kilometers long. Hunter won the race. Peter's bike lost a wheel. He had to drop out 1.7 kilometers from the finish line. How far had he ridden?

$$\begin{array}{r} 23120 \\ + 5371 \\ \hline \end{array}$$

$$\begin{array}{r} 13815 \\ + 7131 \\ \hline \end{array}$$

$$\begin{array}{r} 69320 \\ - 2537 \\ \hline \end{array}$$



Name: \_\_\_\_\_

|  |   |   |
|--|---|---|
| <p>Jack is having a bad day. It takes him 35 minutes to walk to school. He has walked for 19 minutes. How many more minutes will it take to get to school?</p> | <p>Emily wants a pink Thneed. A pink Thneed costs \$16 because pink Truffula trees are rare now. She has \$10.42. How much more money does she need to buy a pink Thneed?</p> | <p>There are two hundred eighty-nine students at Emerson Elementary School. Forty of the students wear glasses. Twenty-five students wear contact lenses. How many students don't wear glasses or contact lenses?</p> |
|--|---|---|

|   |  |                                      |   |                    |
|---|--|--------------------------------------|---|--------------------|
| $\begin{array}{r} 76 \\ - 19 \\ \hline \end{array}$ | <input type="radio"/> ohn<br><input type="radio"/> ehn<br><input type="radio"/> own<br><input type="radio"/> iwn | $86 - 49 = \underline{\hspace{2cm}}$ | $\begin{array}{r} 88 \\ + 45 \\ \hline \end{array}$ | $7 \overline{)28}$ |
|   |  | $9 + \boxed{\phantom{00}} = 34$      |   |                    |

Write the final part of the math analogy.

$862 : 962 :: 495 : \boxed{\phantom{000}}$

Explain why you think your answer is correct.

|   |   |                   |
|---|---|-------------------|
| $6 \times 1 = \underline{\hspace{2cm}}$ | $1 \times 5 = \underline{\hspace{2cm}}$ |                   |
|   |   | $2 \overline{)4}$ |

|                                  |                                 |                                  |                                 |
|----------------------------------|---------------------------------|----------------------------------|---------------------------------|
| $11 + \boxed{\phantom{00}} = 14$ | $5 + \boxed{\phantom{00}} = 23$ | $12 + \boxed{\phantom{00}} = 22$ | $7 + \boxed{\phantom{00}} = 21$ |
|----------------------------------|---------------------------------|----------------------------------|---------------------------------|

Name: \_\_\_\_\_

Fill in the boxes so each line equals 7.


|     |   |   |
|-----|---|---|
| 7   |   |   |
| 1   | x |   |
| 19  | - |   |
|     | ÷ | 1 |
|     | + |   |
|     | x | 6 |
| ( 3 | + |   |
|     | ) | + |
|     |   |   |

Write a word to describe May.

\_\_\_\_\_


|   |  |
|---|--|
| $\begin{array}{r} 5 \\ x 7 \\ \hline \end{array}$   | $\begin{array}{r} 3 \\ x 9 \\ \hline \end{array}$  |
| $\begin{array}{r} 10 \\ x 10 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ x 11 \\ \hline \end{array}$ |

|                    |
|--------------------|
| $6 \overline{)36}$ |
| $9 \overline{)63}$ |



Can you think of a five-letter word that has the vowel E in it?

\_\_\_\_\_



Write this number using words.

$$\begin{array}{r} 94 \\ - 68 \\ \hline \end{array}$$

Write a word problem for  $3 \times 5 = 15$ .

Robert wanted his very own Thneed. He went to the store and found a Thneed just like he wanted! The Thneed cost \$4.77. He gave the clerk a 5-dollar bill for the Thneed. How much change should Robert get back?

$86 - 21 = \underline{\hspace{2cm}}$

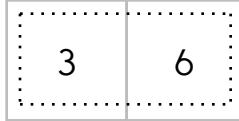
|                    |                    |                    |
|--------------------|--------------------|--------------------|
| $3 \overline{)15}$ | $8 \overline{)40}$ | $6 \overline{)18}$ |
|--------------------|--------------------|--------------------|

Name: \_\_\_\_\_

### Sudoku Sums of 9

Each row, column, and box must have the numbers 1 through 9.  
All nine numbers must be used, and none can be repeated.  
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 9.

Here is an example of a sudoku sum of 9:



$$\begin{array}{r} 56 \\ + 66 \\ \hline \end{array}$$

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

Write a question you could ask a plumber.

\_\_\_\_\_

\_\_\_\_\_



$4 + \boxed{\phantom{00}} = 7$

$15 + \boxed{\phantom{00}} = 27$

$5 + \boxed{\phantom{00}} = 21$

$13 + \boxed{\phantom{00}} = 37$

Name: \_\_\_\_\_

$$\begin{array}{r} 13 \\ + 91 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ + 93 \\ \hline \end{array}$$

$$\begin{array}{r} 101 \\ - 53 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ + 93 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ - 52 \\ \hline \end{array}$$

$$\begin{array}{r} 101 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 127 \\ - 85 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 30 \\ \hline \end{array}$$

$$\begin{array}{r} 100 \\ - 70 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ + 77 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ + 92 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 145 \\ - 76 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 109 \\ - 76 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 25 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ + 71 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ + 58 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ - 30 \\ \hline \end{array}$$

$$\begin{array}{r} 108 \\ - 83 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ + 95 \\ \hline \end{array}$$

$$\begin{array}{r} 104 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ + 69 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ + 39 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ - 19 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ + 84 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ + 57 \\ \hline \end{array}$$

$$\begin{array}{r} 126 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \square \\ + 9 \\ \hline \square \\ + 9 \\ \hline \square \\ - 4 \\ \hline 25 \\ + \square \\ \hline 30 \\ - \square \\ \hline 28 \\ + \square \\ \hline 32 \\ - 4 \\ \hline \square \\ - 6 \\ \hline 22 \\ + \square \\ \hline 29 \\ + \square \\ \hline 33 \end{array}$$

Name: \_\_\_\_\_

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

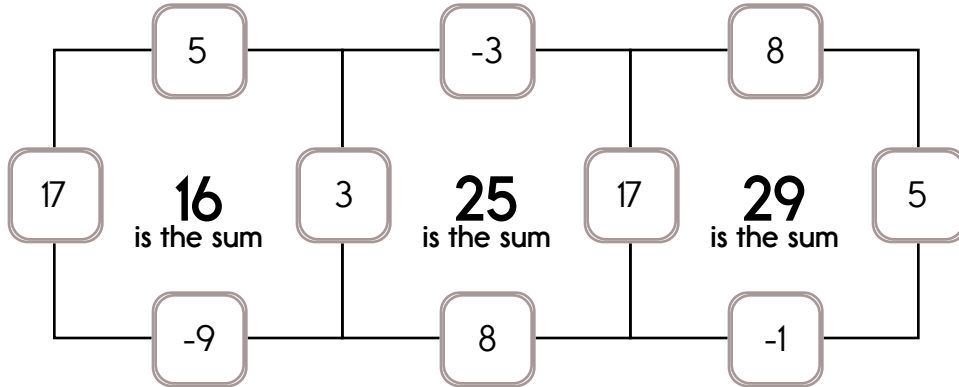
Example:

$$17 + 3 + 5 - 9 = 16$$

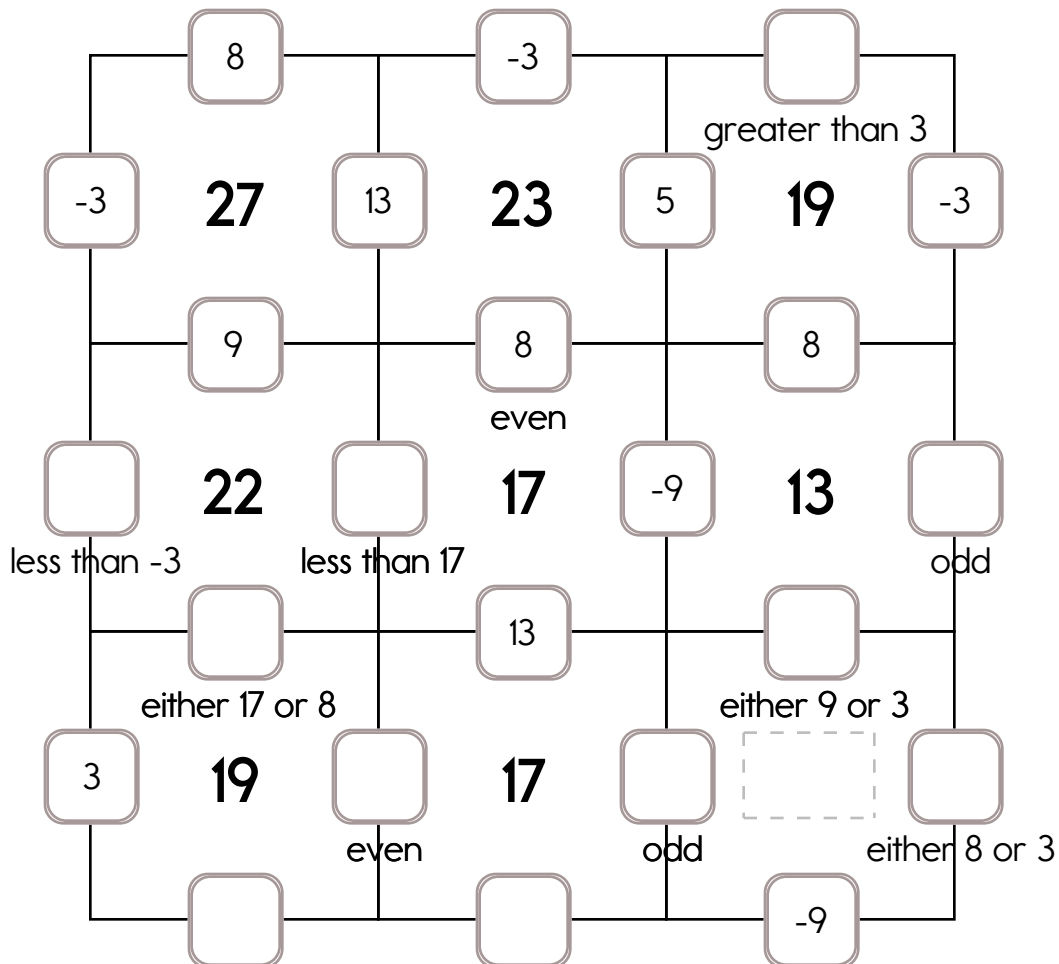
Example:

$$17 + 5 + 8 - 1 = 29$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: -3, -9, or -1. The other three numbers have to all be DIFFERENT and can be from these numbers: 5, 8, 13, 17, 3, or 9.



Name: \_\_\_\_\_

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: -1, -6, or -5. The other three numbers have to all be DIFFERENT and can be from these numbers: 18, 6, 5, 3, 17, or 12.

|                 |                 |     |                 |    |                 |    |
|-----------------|-----------------|-----|-----------------|----|-----------------|----|
|                 | -6              |     | 18              |    |                 |    |
| 3               | 8               | 5   | 20              | -6 | 23              | 5  |
|                 | 6               |     | 3               |    |                 |    |
|                 |                 |     | less than 18    |    | either 18 or 6  |    |
|                 | 29              | -6  | 14              |    | 22              |    |
| less than 17    |                 |     | either 18 or 5  |    |                 |    |
|                 |                 |     | 12              |    |                 |    |
|                 | either 18 or 17 |     |                 |    | greater than 3  |    |
| 18              | 33              |     | 20              |    | 29              | -6 |
|                 |                 | odd | either 3 or 6   |    |                 |    |
|                 | odd             |     | less than 5     |    | either 12 or 3  |    |
|                 | 36              |     | 39              |    | 41              |    |
| even            |                 |     | even            |    | less than -5    |    |
|                 | even            |     | either 5 or 17  |    | greater than 12 |    |
|                 | 21              |     | 20              |    |                 |    |
| greater than 12 | either 18 or 3  |     | either -6 or -1 |    |                 |    |
|                 |                 |     |                 |    |                 |    |
|                 | less than -1    |     |                 |    | greater than 3  |    |

Name: \_\_\_\_\_

Peter wants to buy a bed for his dog. The bed costs \$25.71. Peter has three \$5 bills, four \$1 bills, three quarters, five dimes, and two nickels. How much more money does he need to buy the bed?

Jessica made a honey cake to take to school. She cut the cake into 6 equal pieces. Then she cut each of the pieces in half. She ate 3 pieces of cake before she took it to school. How many pieces of cake did she take to school?

Kevin saved money to buy a turkey for Thanksgiving. He saved 40 cents each day. He started on Monday. On Friday, how much had he saved?

Name: \_\_\_\_\_

Complete each pattern, using the same rule. Write what the rule is.

55, 70, 85, 100, 115, 130, 145, 160, \_\_\_\_\_

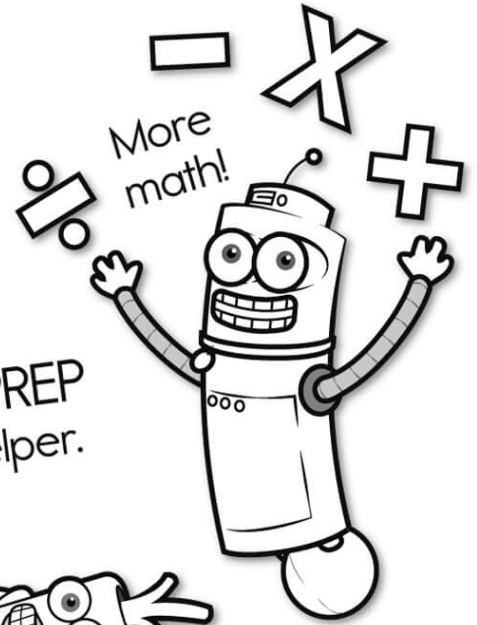
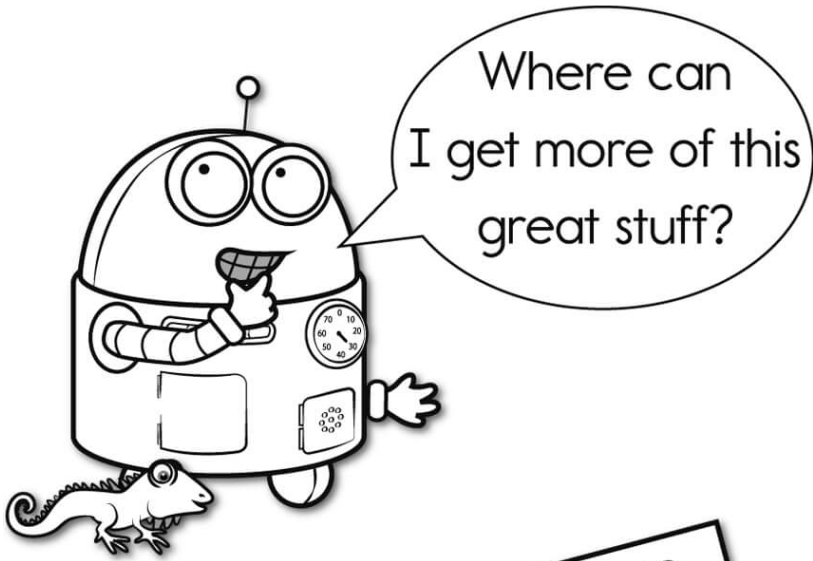
49, 64, \_\_\_\_\_, 94, 109, 124, \_\_\_\_\_, \_\_\_\_\_

30, \_\_\_\_\_, \_\_\_\_\_, 75, \_\_\_\_\_, \_\_\_\_\_, 120, 135

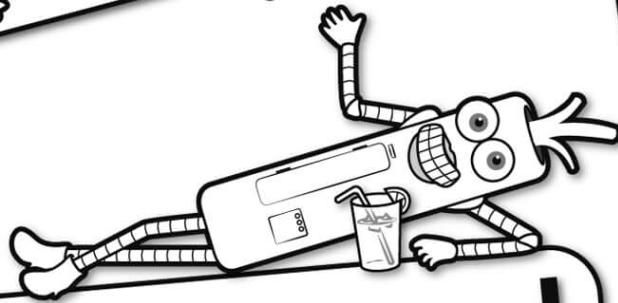
Complete each pattern. Write what the rule is.

|    |    |    |
|----|----|----|
| 48 | 44 | 40 |
| 36 |    | 28 |
| 24 | 20 |    |
| 12 |    | 4  |



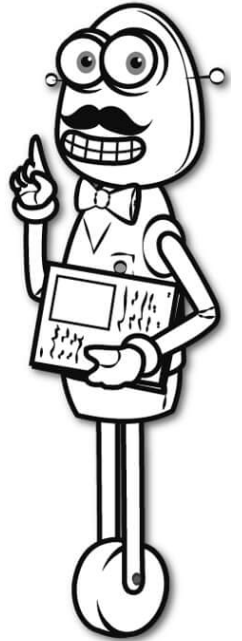


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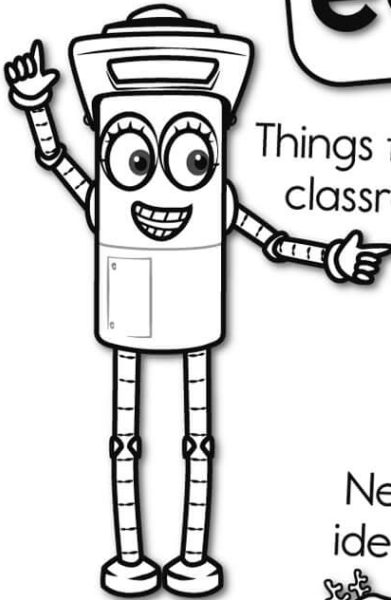


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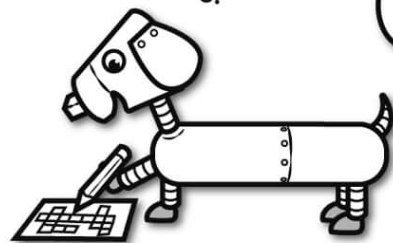
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