

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

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

# Mental Math



= Do it  
in your  
head!

imagine 7 in your head

subtract 3

multiply 12

Write the ones digit.

\_\_\_\_\_ **A**

imagine 6 in your head

subtract 4

add 6

subtract 5

Write the number.

\_\_\_\_\_ **B**

imagine 7 in your head

subtract 3

add 1

multiply 2

add 4

Write the odd digit  
in your answer.

\_\_\_\_\_ **C**

imagine 8 in your head

add 3

multiply 12

subtract 8

double it

Add the tens digit to  
the ones digit.

Write the sum.

\_\_\_\_\_ **D**    \_\_\_\_\_ **E**

What is the sum?

**A + B + C + D + E**

\_\_\_\_\_

Wow! Great job! That's the answer, but do you know how to SPELL the number?

\_\_\_\_\_ t \_\_\_\_\_ e n \_\_\_\_\_

1 before 14 \_\_\_\_\_

3 after 11 \_\_\_\_\_

8 after 13 \_\_\_\_\_

7 before 16 \_\_\_\_\_

7 after 14 \_\_\_\_\_

6 after 18 \_\_\_\_\_

6 before 13 \_\_\_\_\_

1 after 15 \_\_\_\_\_

5 after 19 \_\_\_\_\_

3 before 17 \_\_\_\_\_

4 after 17 \_\_\_\_\_

2 after 12 \_\_\_\_\_

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

Can you draw lines to cover every number or shape in the picture?

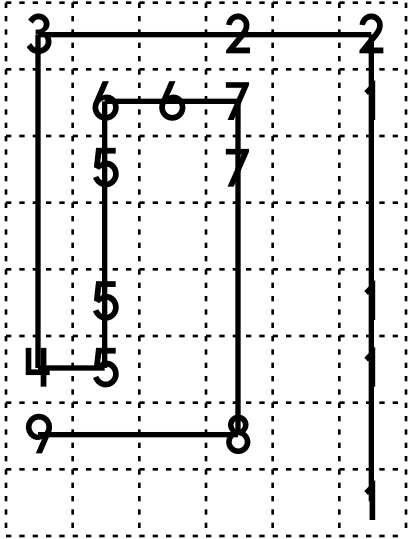
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

The first one is already done for you. Good luck.

Draw exactly 8 lines.

Start on 1.

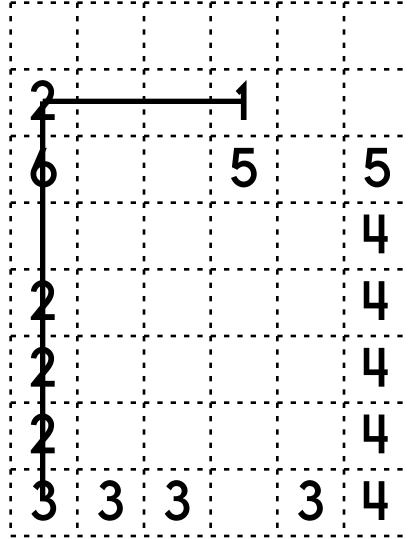
Do not pick up your pencil.



Draw exactly 5 lines.

Start on 1.

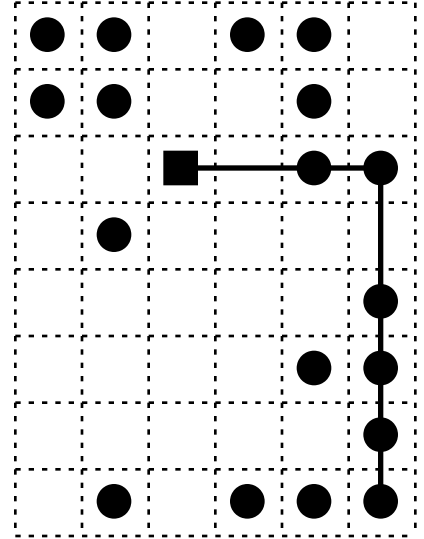
Do not pick up your pencil.



Draw exactly 8 lines.

Start on the square.

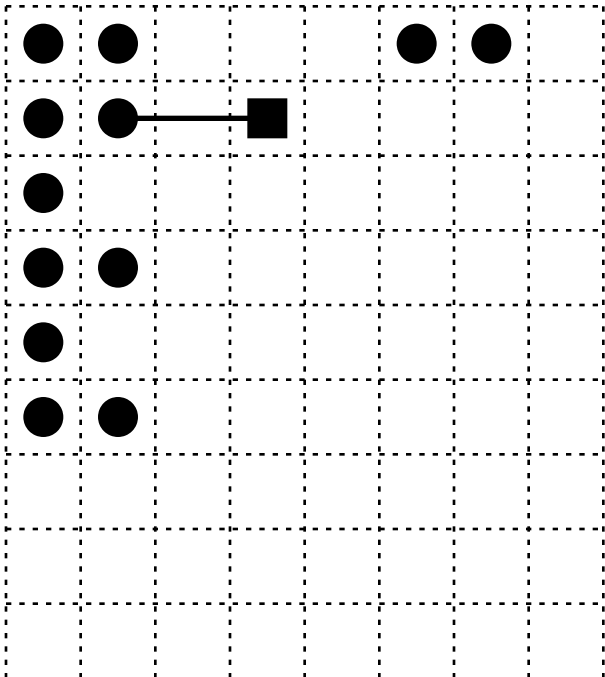
Do not pick up your pencil.



Draw exactly 5 lines.

Start on the square.

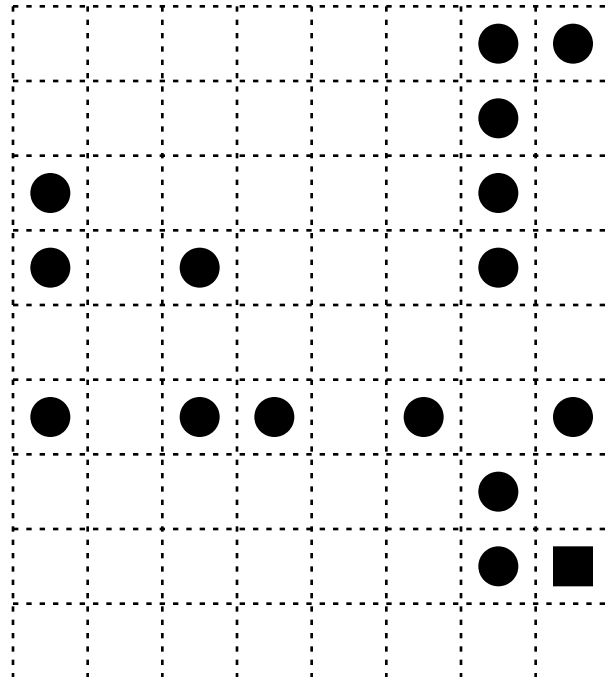
Do not pick up your pencil.



Draw exactly 9 lines.

Start on the square.

Do not pick up your pencil.



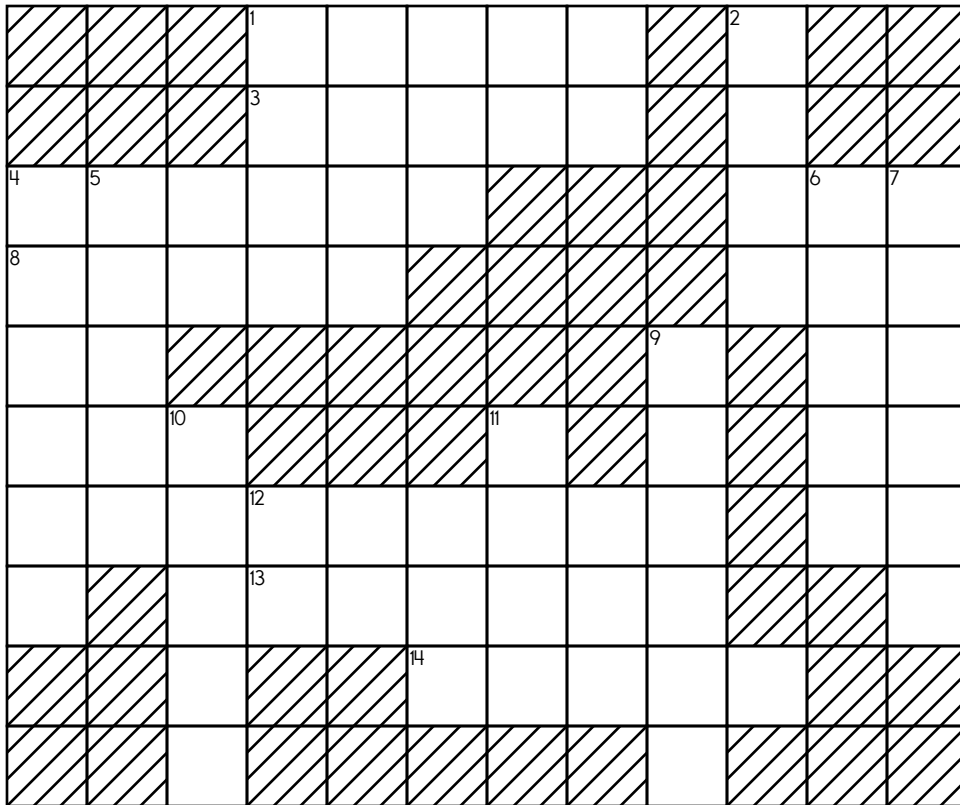
Name: \_\_\_\_\_

**ACROSS**

**DOWN**

1. the thousands in 10-Down + the tens in 8-Across + the ten thousands in 6-Down + the hundreds in 12-Across
3. the tens in 13-Across + the ten thousands in 14-Across + the hundreds in 11-Down
4. the hundreds in 11-Down + the tens in 4-Down + the ten thousands in 3-Across + the hundred thousands in 7-Down
8. the ten thousands in 7-Down + the tens in 13-Across + the hundreds in 12-Across
12. the tens in 2-Down + the hundreds in 11-Down + the ten thousands in 14-Across + the hundred thousands in 13-Across
13. **two hundred eighty-five thousand seven hundred thirty**
14. the hundreds in 11-Down + the tens in 2-Down + the ten thousands in 13-Across

2. one thousand three hundred forty
4. the tens in 11-Down + the hundreds in 12-Across + the ten thousands in 14-Across + the hundred thousands in 13-Across
5. the tens in 12-Across + the ten thousands in 3-Across + the hundreds in 11-Down
6. the tens in 4-Down + the hundreds in 14-Across + the ten thousands in 3-Across
7. the ten thousands in 4-Down + the tens in 14-Across + the hundreds in 12-Across + the hundred thousands in 13-Across
9. the ten thousands in 4-Across + the hundred thousands in 12-Across + the tens in 7-Down
10. the ten thousands in 7-Down + the hundreds in 5-Down + the thousands in 13-Across
11. one thousand six hundred seventy



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

	+	+	=	
	A	B	C	?
+	C	B	C	36
=	27	4	34	

**Equations and Hints:**

Each letter is a whole number.

Fill in the equations using the chart:

$$A + C = 27 \quad C + B + C = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = 34$$

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

Additional hints:

$$A = B + 8 \quad A > 9 \quad C \text{ is the largest.}$$

**Show Work:****Solve:**

$$? = \underline{\quad}$$

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

x	0	1	2	3	4	5	6	7	8	9	10	11	12
2		2											
3				9									
4											40		
5						25							
6												66	
7			14										
8	0												
9										81			
10													120
11									88				
12					48								

$2 \times 2 =$        $5 \times 8 =$        $7 \times 12 =$        $4 \times 6 =$        $0 \times 11 =$

$3 \times 3 =$        $12 \times 8 =$        $0 \times 4 =$        $11 \times 1 =$        $12 \times 7 =$

$4 \times 5 =$        $6 \times 5 =$        $2 \times 7 =$        $2 \times 8 =$        $10 \times 6 =$

$12 \times 1 =$        $11 \times 9 =$        $8 \times 9 =$        $4 \times 11 =$        $3 \times 0 =$

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

Each box needs a number from 1 to 9. You may re-use numbers.  
One set of sums has been done for you.

sum of 4 ↓	sum of 8 →			sum of 7 ↓		sum of 8 ↓	sum of 6 ↓
		sum of 7 ↓			sum of 5 →	4	
	sum of 10 →				sum of 3 ↓	1	
	sum of 6 ↓		sum of 5 ↓			3	
					sum of 10 ↓		
		sum of 8 →					
				sum of 8 →			

sum of 10 →							
sum of 5 ↓			sum of 5 →				
	sum of 6 →						sum of 10 ↓
	sum of 10 →				sum of 7 ↓	sum of 5 ↓	
		sum of 6 ↓	sum of 10 ↓	sum of 6 →			
	sum of 10 ↓			sum of 8 →	1	3	4
				sum of 3 →			
sum of 10 →							

Write a topic and a story to describe the picture.



Topic: \_\_\_\_\_

\_\_\_\_\_

Write a paragraph: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



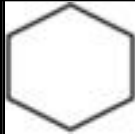

word root **per** can mean **through or very** **perennial**

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

Each row, column, and box must have the numbers 1 through 6. The first box is done.

6	5	1			
3	4	2			1
				4	
	6		2	1	
	1		3		
		6			5

Each row, column, and box must have 4 different pictures.

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

**Sudoku Sums of 7**

Each row, column, and box must have the numbers 1 through 6.  
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 7.

Here is an example of a sudoku sum of 7:

4	3
---	---

	4				5
			3		
2					6
6	5			1	
	2	3		6	

In the parking lot there are 16 vehicles. There are 4 SUVs. What fraction of the vehicles are not SUVs?

What is the sum of 10 and 132?

You need to add what to 66 to get 73?

Is 789 closer to 700 or 800?

Write the number that is one ten less than 2,242.

How many tens are in the number 96,000?



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

Each row, column, and box must have the numbers 1 through 6.

			3	2	
			1		
4	1		5		
	2			1	
1		6			
		2			

afflict • transform • preschool • grammar • resist • reindeer

Each row, column, and box must have all the words from the word list. Write in the missing words.

	afflict	transform			
		grammar			
	reindeer		afflict		grammar
		afflict			transform
resist		reindeer			preschool
		preschool		transform	

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

Lauren, Anthony, Jose, and Christina each went on vacation with their father (Sean, Steven, James, and Michael). They each traveled to a different country (Japan, Venezuela, Korea, and Chile).

Figure out each person's father and the country they visited.

1. James and Sean went on vacation to the same continent.
2. Steven went to either Korea or Japan.
3. Before the vacation, Anthony and Jose saw Lauren's dad, Sean, at the mall.
4. Before the vacation, Jose and Anthony saw Christina's dad, Steven, at the mall.
5. Michael did not go to Japan.
6. Sean went to either South America or Asia.
7. Lauren went to either South America or Asia.
8. Anthony's trip was to a different continent than either Michael's or Steven's trip.
9. James did not go to Venezuela.
10. Steven and Michael went on vacation to the same continent.

Lauren's father's name is \_\_\_\_\_. They went on vacation to \_\_\_\_\_.

Anthony's father's name is \_\_\_\_\_. They went on vacation to \_\_\_\_\_.

Jose's father's name is \_\_\_\_\_. They went on vacation to \_\_\_\_\_.

Christina's father's name is \_\_\_\_\_. They went on vacation to \_\_\_\_\_.

Write as a decimal.  
Eighteen and nine tenths

Write as a decimal.

$$8 \frac{7}{100}$$

Write as a decimal.

$$18 \frac{1}{1000}$$

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

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

N, I, M, H, L, G, K, F, \_\_\_\_, \_\_\_\_

R, L, Q, K, P, J, O, I, N, H, M, \_\_\_\_

L, \_\_\_\_, \_\_\_\_, H, J, G, I, F, H, E, G, D

Complete each pattern. Write what the rule is. Hint: Look at movement of digits!

\_\_\_\_\_, \_\_\_\_\_, 538847, 753884, 475388, 847538, 884753,  
388475, 538847, 753884, 475388, 847538, 884753, 388475

2267, 7226, \_\_\_\_\_, 2672, 2267, 7226, 6722,  
2672, 2267, \_\_\_\_\_, \_\_\_\_\_, 2672, 2267, 7226

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

**Sudoku Sums of 6**

Each row, column, and box must have the numbers 1 through 6.  
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 6.

Here is an example of a sudoku sum of 6:

3	3
---	---

3					
		1		5	
				3	
			4		1
	3				2
		4			6

$$14 \div \underline{\quad} = 7$$

The number 55 is more than the number 7 by how much?

Write the number that has exactly 15 ones.

Is 15 a composite or a prime number?

$\frac{1}{3}$ , (1), (3), \_\_\_\_\_,  
(27), (81), (243),  
(729)

$$\underline{\quad} \div 10 = 10$$

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

Cross off the letter or number that does NOT belong.

6, 6, i, i, U, U, 0, 6, 6, i, U, U, 0, 6, 6, i, U, U

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

Cross off the number that does NOT belong.

 $3\frac{15}{25}$ ,  $3\frac{10}{25}$ ,  $3\frac{5}{25}$ , **3**,  $2\frac{20}{25}$ ,  $2\frac{15}{25}$ ,  $2\frac{10}{25}$ ,  $2\frac{5}{25}$ , **2**,  
 $1\frac{20}{25}$ ,  $1\frac{15}{25}$ ,  $1\frac{10}{25}$ ,  $1\frac{6}{25}$ ,  $1\frac{5}{25}$ , **1**,  $\frac{20}{25}$ ,  $\frac{15}{25}$ ,  $\frac{10}{25}$ 

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

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

The newspaper listed the daily high and low temperatures for four cities (New York City, Boston, Anchorage, and Orlando). The high temperatures were negative two degrees Celsius, ten degrees Celsius, twenty-six degrees Celsius, and negative ten degrees Celsius. The low temperatures were twenty-three degrees Celsius, negative twelve degrees Celsius, negative four degrees Celsius, and negative fifteen degrees Celsius.

Figure out the high and low temperatures for each city.

1. New York City's low temperature of the day was eleven degrees Celsius warmer than Anchorage's low temperature of the day.
2. The difference between Boston's low temperature and Orlando's high temperature was thirty-eight degrees Celsius.
3. New York City's high temperature of the day was warmer than negative two degrees Celsius.
4. Anchorage had the lowest low temperature of the day.
5. Anchorage's high temperature was not negative two degrees Celsius.

New York City had a high temperature of \_\_\_\_\_ and a low temperature of \_\_\_\_\_.

Boston had a high temperature of \_\_\_\_\_ and a low temperature of \_\_\_\_\_.

Anchorage had a high temperature of \_\_\_\_\_ and a low temperature of \_\_\_\_\_.

Orlando had a high temperature of \_\_\_\_\_ and a low temperature of \_\_\_\_\_.

$$8 \times 6 + 3$$

How many total legs are on 13 tigers?

Rosa bought a pack of six waters. It cost \$3.06. How much did each water cost?

$$7 + 3 + 7$$

What number is halfway between 13 and 17?

(343), (49), (7),  
 \_\_\_\_\_,  $\frac{1}{7}$ ,  $\frac{1}{49}$ ,  $\frac{1}{343}$ ,  
 $\frac{1}{2401}$

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

Complete each pattern. Write what the rule is.

9	15	21	27	33	39
6	19	32	45		71
2	10	18	26	34	
1	13			49	61

Complete each pattern. Write what the rule is for each pattern.

(64), (8),

 $(1), \frac{1}{8}, \frac{1}{64}, \frac{1}{512}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$ 

(4,096), (1,024), (256),

(64), (16), (4),  $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

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

Cross off the number that does NOT belong.

7, 14, 21, 26, 28, 35, 42, 49, 56, 63, 70

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

Cross off the number that does NOT belong.

42, 43, 45, 48, 52, 57, 63, 70, 78, 79, 87, 97, 108, 120

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



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

Luis, Joseph, Jason, Kaylee, Destiny, and Matthew are 26, 28, 24, 33, 27, and 14 years old.

Find each person's age.

1. Destiny is older than Jason and older than Matthew.
2. Luis is older than fourteen years old.
3. Jason is older than fourteen years old.
4. Destiny is younger than Joseph.
5. Kaylee is older than Luis and older than Destiny.
6. Matthew is less than twenty-seven years old.
7. Kaylee is older than twenty-four years old.
8. Kaylee is older than Matthew.
9. Luis is younger than Destiny.
10. Kaylee is older than Joseph.
11. Destiny is less than thirty-three years old.
12. Jason is younger than Luis and older than Matthew.
13. Joseph is less than thirty-three years old.

Luis is \_\_\_\_\_ years old.

Joseph is \_\_\_\_\_ years old.

Jason is \_\_\_\_\_ years old.

Kaylee is \_\_\_\_\_ years old.

Destiny is \_\_\_\_\_ years old.

Matthew is \_\_\_\_\_ years old.

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

wrong • precipice • breadth • garbage • umbrella • clothing

Each row, column, and box must have all the words from the word list. Write in the missing words.

umbrella		wrong			garbage
		clothing			
				precipice	
	breadth		garbage	umbrella	
wrong	umbrella			breadth	

List the first three multiples of 9.

\_\_\_\_\_

How many seconds are in eight minutes?

\_\_\_\_\_

$$\begin{array}{r} 35 \\ - 34 \\ \hline \end{array}$$

What is the mode of these numbers?

27, 26, 24, 22, 19, 17, 18, 17, 21, 21, 26, 24

\_\_\_\_\_

Make a pattern.

Start with 54.

Subtract 7.

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

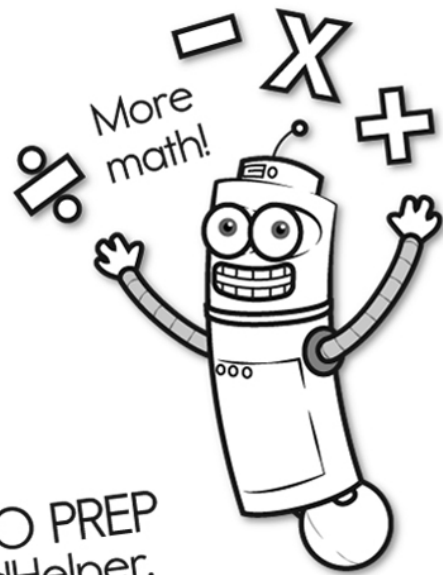
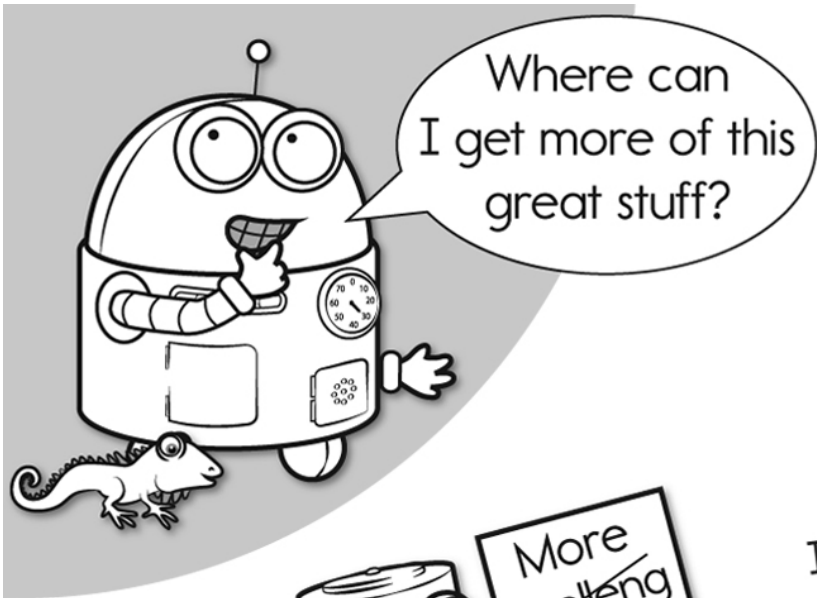
Erin bought a pair of jeans. She paid with 13 dollar bills, 3 dimes, 1 nickel, and 8 pennies. How much did she pay?

Round to the nearest ten.

75,784 is rounded to \_\_\_\_\_

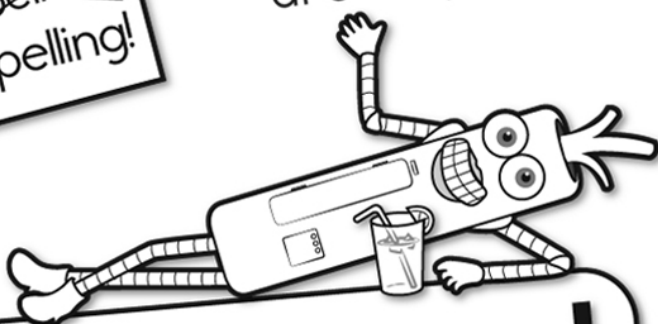
26,652 is rounded to \_\_\_\_\_

9,798 is rounded to \_\_\_\_\_

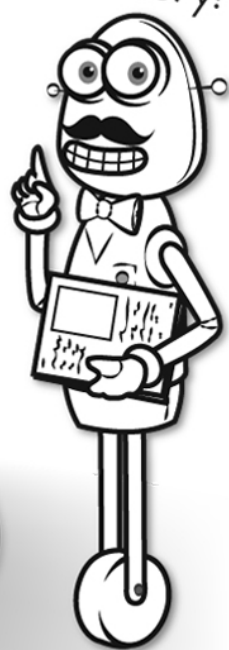


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More history!



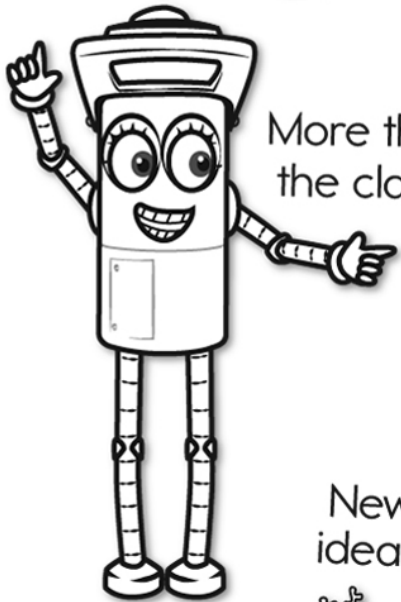
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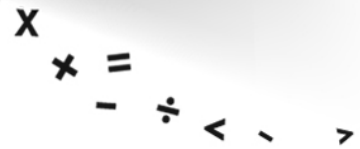
More things for the classroom!



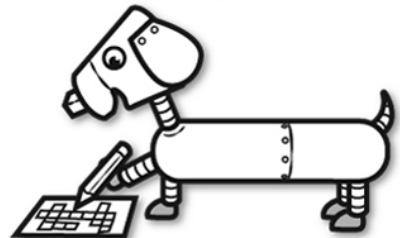
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