

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

		+		+		x		=	
+	B	C	C	C					29
+	B	C	B	C					71
=	C	?	A	B					482
	37	9	48	23					

**Equations and Hints:**

Each letter is a whole number.

Fill in the equations using the chart:

$$B + C + C \times C = 29 \quad B + B + \underline{\quad} = 37$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 23 \quad \underline{\quad} + \underline{\quad} + \underline{\quad} = 48$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} \times \underline{\quad} = 71$$

Additional hints:

$$A = C + 25 \quad A > 22$$

**Solve:**

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

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

Circle all the numbers that are not prime numbers.

41	43	45	47	49	51
----	----	----	----	----	----

Pick one of the numbers you circled and write that number as a product of its prime factors.

Circle all the prime numbers.

9	11	13	15	17	19
---	----	----	----	----	----

How many other prime numbers do you know? Write some.

Write the greatest common factor for each pair of numbers.

48 and 24

42 and 21

72 and 44

Find the value of each expression.

$2^3$

$4^2$

$10^2$

$8^3$

$11^2$

$12^2$

If you are given that  $18^2 = 324$ , then show how you would find the square of 180.

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



Polly the perfectionist likes everything to be perfect, just perfect, so she was thrilled to learn about perfect tense verbs. With these verbs, the main verb is preceded by the words will have, had, or have. Using Polly's word pouch, fill in the blanks with the best perfect tense verbs.

➡ Draw a picture of an octopus playing a piano if you like:

Merlina the lady magician \_\_\_\_\_ many weird potions go wrong, so she is very careful each time she makes a new potion.

Octavia the octopus \_\_\_\_\_ the piano for five years and can play complicated pieces with her many legs.

By next year, the Jolly Green Giant \_\_\_\_\_ many giant marathons, adding up to hundreds of miles.

In order to win the spell contest, Wilma the crazy witch \_\_\_\_\_ many creative spells that did strange things.

The weather \_\_\_\_\_ unpredictable this spring, and sometimes it was rainy, snow, and sunny in the space of several hours.

Samantha the sloth was a sweet soprano and \_\_\_\_\_ in many talent shows during her career.

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

0.04 is equal to

$\frac{4}{1}$	$\frac{4}{10}$	$\frac{4}{100}$
$\frac{4}{1000}$		

Skill: Fractions and Decimals

Write the fraction as a decimal.

$\frac{7}{10} =$

Skill: Basics of Fractions and Mixed Numbers

Compare the numbers. Write  $>$ ,  $<$ , or  $=$ .

3,540 \_\_\_\_\_ 3,509

47,806 \_\_\_\_\_ 48,889

28,093 \_\_\_\_\_ 26,598

Skill: Whole Numbers

What is the sum in simplest form?

$\frac{1}{4} + \frac{6}{12}$

$\frac{7}{12}$

$\frac{3}{4}$

$\frac{6}{8}$

Skill: Fractions and Mixed Numbers (addition/subtraction)

	2	7	1	8	4
+	8	2	7	1	5
<hr/>					

Skill: Whole Numbers and Place Value

The number 7,653 rounded to the nearest \_\_\_\_\_ is 8,000.

10

100,000

1,000

100

Skill: Estimation and Number Theory

Find the difference between  $\frac{1}{3}$  and  $\frac{1}{2}$ .

$\frac{3}{6}$

$\frac{5}{6}$

$\frac{1}{6}$

Skill: Fractions

Add 0.5 and 0.2

0.07

0.7

0.9

Skill: Adding Decimals

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

Circle words to the RIGHT or DOWN. When you are done, use the letters that are left to find a mystery word. Put a square around each letter left over. The first 2 letters that do not form a word are rectangled.

A	<span style="border: 1px solid black; padding: 0 2px;">C</span>	B	L	<span style="border: 1px solid black; padding: 0 2px;">A</span>	D	I	R	P	T	G	A	O	S	
P	D	U	E	I	I	R	E	I	O	A	E	D	P	C
P	A	F	T	D	S	R	T	N	R	M	N	O	T	R
R	N	F	M	A	G	A	R	J	P	O	E	U	I	A
A	G	A	O	R	U	T	I	E	H	U	R	B	M	P
I	E	L	O	E	I	I	E	C	A	N	A	L	I	M
S	R	O	N	S	S	O	V	T	N	T	L	E	S	O
A	K	E	E	N	E	N	E	N	O	R	T	H	M	D
L	F	E	A	S	T	A	C	O	M	P	A	N	Y	E
R	E	T	I	R	E	L	N	W	E	M	E	N	D	L

Write the words found.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

The secret word is all that is left. It consists of all the letters that did not form a word. What is it?

C	A					
---	---	--	--	--	--	--



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

## Can you guess the word?

No duplicate letters can be used.

H	E	A	V	Y
---	---	---	---	---

The letter H is in the word  
and is in the correct spot.

S	C	A	R	E
---	---	---	---	---

The letter C is in the word,  
but C is not in that spot.

A B C D E F G H I J K L

A list of letters will be given that  
have not been used. Good luck!

Hint: There are no duplicate letters in the answer.

T	H	O	S	E
S	L	E	P	T

A B C D F G I J K M N Q R U V W  
X Y Z

--	--	--	--	--

Let's check if you guessed correctly. Look across or  
down to find the correct answer.

P R P P Q H Z S I O O S L S P E N T H  
 T N P O I V H S F T A N E B A O A N P  
 H S N Y E O E T M N T S I P T Z S M L  
 P S T E S A T S H S S S H S T T H W H  
 E P L H H T T D S E P L S E S S P T P  
 E N C E E T D O C P E E E S T P S D E  
 Z N P P V E P E T N T H O S E O O N L  
 O S T P E O S E S P S X R S L E P T O

Hint: There are no duplicate letters in the answer.

T	A	P	E	R
B	R	E	A	D
G	R	A	Z	E

C F H I J K L M N O Q S U V W X  
Y

--	--	--	--	--

Let's check if you guessed correctly. Look diagonally  
to find the correct answer. (DIAGONAL!)

A B R B A T L W E J R Y R E B  
 N K A K R T A E E B Q A T P R  
 A G A R T E A G E G Y U B P E  
 A O U E G P A P A J A E E G E  
 A T A V T U G D E R Y R G A A  
 E A P E D E E T E R A E G D B

Hint: There are no duplicate letters in the answer.

A	W	F	U	L
B	E	L	O	W

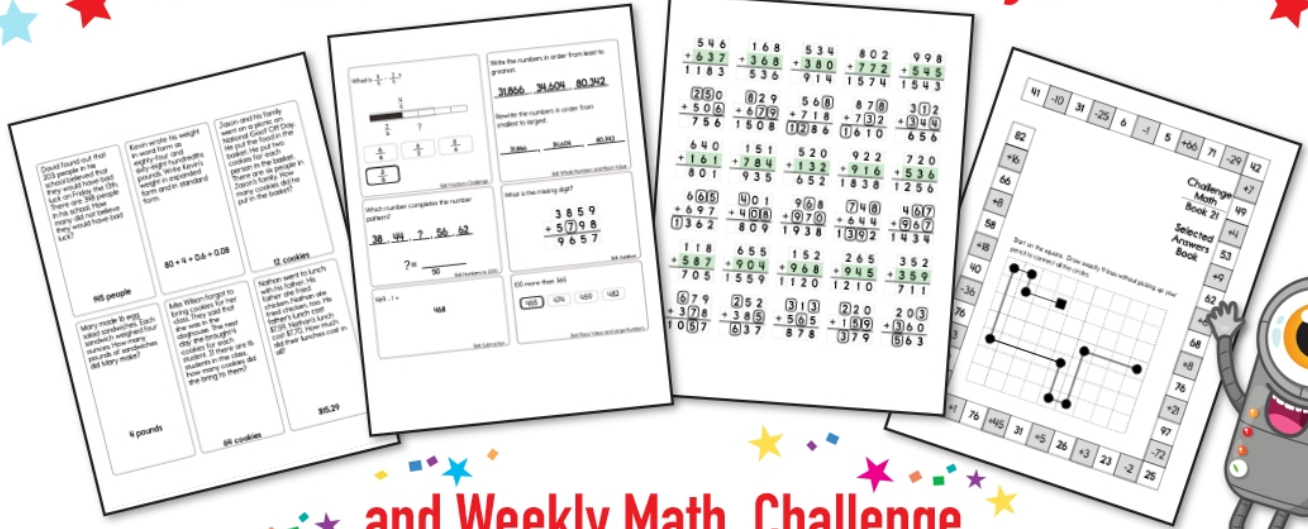
C D G H I J K M N P Q R S T V X  
Y Z

--	--	--	--	--

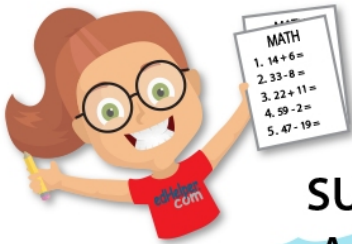
Let's check if you guessed correctly. Look diagonally  
to find the correct answer. (DIAGONAL!)

S A D J E W A E S L W O J O E L O U W  
 L E Q L W L L Q B U W W W Z N L O L L  
 L E U B K E B E X O B W E L W E B W W  
 G A L F E B B O S A W B Q V X Z B A T  
 O O W A W L L B W U B Z L B K E F L G  
 L E B F O B O B E X F E R W A W L L R  
 B O L W U B E W G P H L U A N M W A E  
 A B W B G L W L C L L W W L W A T K B

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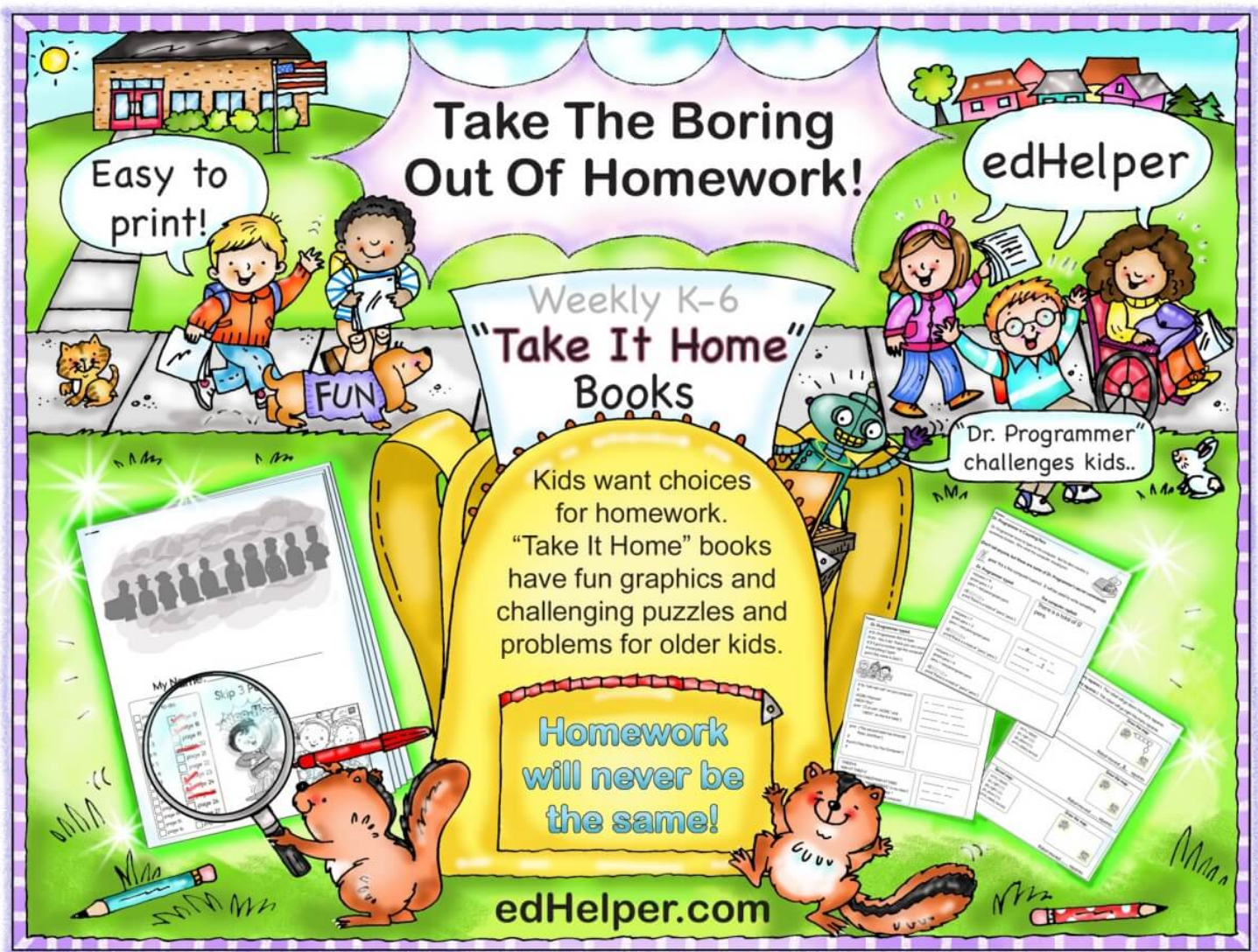
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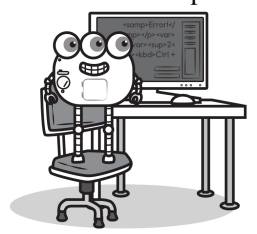




Name: \_\_\_\_\_

Robot was given a math problem to solve.

Megan made 24 pieces of fudge. She ate 7 pieces. How many pieces does she have left?



Robot wrote this program in Python to solve it.

```
# assign variables
total_fudge = 24
fudge_eaten = 7

# calculate remaining fudge
fudge_left = total_fudge - fudge_eaten

# print the result
print(fudge_left)
```

Robot's program will print the answer to the math problem.

What will the program print out?



### Hints and Questions

In the program, "total\_fudge" is called a variable.

It is used to store a value. Name two other variables used in the program.

After Robot's program is done, the variable fudge\_eaten will have a value in it.  
What value does it have?

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

# Reindeer

---

The reindeer is definitely one of the world's greatest winter survivors! Having a dense fur coat, reindeer have no problem fighting off the bitter weather of the Arctic. When reindeer need to travel in search of food, they walk on icy and slippery ground gracefully. They are sociable animals that live in herds. Both male and female reindeer have long, branched antlers. In fact, this physical feature is what sets reindeer apart from other types of deer. Females of other types of deer don't have antlers.

Reindeer have another name - caribou. Why do they have two names? Well, the answer to that question is "geography." People in Europe and Asia call these animals reindeer, but people in North America call them caribou. Aside from having two names, there is another difference between reindeer and caribou. Reindeer have been domesticated animals for hundreds of years. Caribou have always roamed freely in the wild.



Every year, reindeer walk for thousands of miles to look for food - grasses, mosses, lichens, birch and willow leaves, and fungi. We call this animal behavior "migration." During the spring and summer months, reindeer head north. As the snow gradually melts to give way to newly grown grasses and other plants, reindeer find themselves plenty of fresh food by migrating northward. As reindeer keep walking north, they reach the Arctic tundra, an open plain so far north that no trees can grow there. Reindeer don't stay in one specific area. Instead, they are always on the move to have access to fresh food all the time and to prevent overgrazing. When autumn arrives, reindeer start moving south. They return to their winter residences in forested areas where snow accumulation is less. Reindeer use their hooves to paw away snow to uncover lichens, their main food supply during the winter months.

Reindeer mate once a year around October. During the breeding season, male reindeer eagerly show off their beautiful antlers. In order to attract the attention of the females, a male reindeer must fight with other male reindeer to prove that he is the strongest. We call this fight for dominance "rutting." When two male reindeer rut, they lower their heads and run straight at each other. BOOM! They smash and interlock their antlers, shoving and pushing each other. After a few minutes, the weaker male accepts his misfortune and retreats, leaving all the females of the territory to the winner.

Once the mating (rutting) season is over, male reindeer are ready to shed their antlers. Around December and January, the males lose their antlers. Female reindeer retain their antlers until after they give birth to their calves in spring. Reindeer shed old and grow new sets of antlers every year. For the females, shedding their antlers after their male counterparts is a great advantage - female reindeer use their antlers to drive the males out of their feeding grounds. As spring comes, reindeer make their annual trip to the north, and the males begin to grow new pairs of antlers. While migrating, pregnant female reindeer find safe areas, called calving grounds, to give birth to their young. The young are able to walk within an hour after birth. They must keep up with their mothers during migration, or they may become easy prey to other animals.

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

Reindeer

## Questions

---

- \_\_\_\_\_ 1. What are reindeer also known as?
- A. elk
  - B. sambar
  - C. moose
  - D. caribou
- \_\_\_\_\_ 2. Where can we find reindeer?
- A. in a desert
  - B. in a tropical rain forest
  - C. in Antarctica
  - D. near the Arctic
- \_\_\_\_\_ 3. Reindeer belong to the deer family.
- A. true
  - B. false
- \_\_\_\_\_ 4. People in Europe and Asia call reindeer "caribou."
- A. false
  - B. true
- \_\_\_\_\_ 5. Which of the following statements is true?
- A. People in Europe and Asia call reindeer "caribou."
  - B. Caribou have been domesticated animals for hundreds of years.
  - C. People in North America call reindeer "reindeer."
  - D. Reindeer have been domesticated animals for hundreds of years.
- \_\_\_\_\_ 6. Every year, reindeer must travel for thousands of miles to search for food. What do we call this animal behavior?
- A. metamorphosis
  - B. hibernation
  - C. migration
  - D. torpor
- \_\_\_\_\_ 7. How often do reindeer shed their antlers?
- A. once a year
  - B. once a week
  - C. once a month
  - D. once a decade
- \_\_\_\_\_ 8. What is the term used to describe two male reindeer fighting for dominance?
- A. migrating
  - B. rutting
  - C. dancing
  - D. trotting

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

- \_\_\_\_\_ 9. Which of the following is true about reindeer?
- A. Female reindeer shed their antlers around December and January.
  - B. Reindeer calves are able to walk within an hour after birth.
  - C. While migrating, male reindeer are in charge of looking for safe places for their mates to give birth. We call these safe areas calving grounds.
  - D. Only male reindeer have antlers.
- \_\_\_\_\_ 10. Which of the following is NOT true about reindeer's migration?
- A. Reindeer find their homes in the tundra during the spring and summer months.
  - B. Pregnant female reindeer give birth to their young while migrating south.
  - C. Reindeer travel to the north during spring and summer.
  - D. Reindeer make their homes in forested areas during the winter months.

$$\begin{array}{r} 0.92 \\ - 0.776 \\ \hline \end{array}$$

$$\begin{array}{r} 0.4 \\ - 0.26 \\ \hline \end{array}$$

$$19.7 - 1.35 =$$

How much money is 1 quarter, 9 dimes, 1 nickel, and 1 penny?

Write  $\frac{4}{12}$  in lowest terms.

How many centimeters in 460.4 meters?

A rectangle is 26 cm on one side and 12 cm on another side. What is the perimeter?

$$2 + 15 \div 3$$

It was 2 degrees above zero in the morning. By afternoon the temperature rose 27 degrees. How warm was it?

Round the decimal 0.765 to the nearest hundredth.

The diameter of a circle is 882 cm. What is the radius of this circle?

$$39 + n = 56$$

What is the value of n?



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

What are the missing digits?

$$\begin{array}{r}
 3 \square 8 \\
 + 7 \square 2 \\
 \hline
 1110
 \end{array}$$

What is the missing digit?

$$\begin{array}{r}
 56\square \\
 + 795 \\
 \hline
 1364
 \end{array}$$

What is the missing digit?

$$\begin{array}{r}
 1507 \\
 + \square 041 \\
 \hline
 8548
 \end{array}$$

What are the missing digits?

$$\begin{array}{r}
 \square 88 \\
 + 62\square \\
 \hline
 1408
 \end{array}$$

Draw a line to match each problem with the same answer.

25 tens + 5 tens

●

●

1 one + 5 tens

11

●

●

2 + 6 + 3

51

●

●

300

Use paper and pencil to answer.

$$335 + 326 =$$

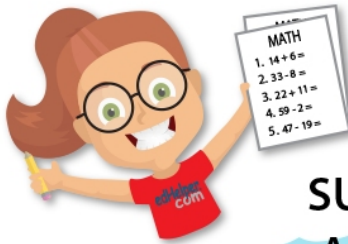
Use paper and pencil to answer.

$$47 + 46 =$$

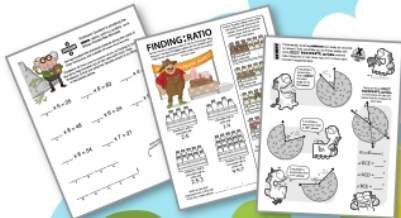
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