

Name: _____

A circle is randomly painted with small splotches of three different colors. One-seventh of the circle is red, half of the circle is blue, and the rest is green. What is the probability that a randomly thrown dart (thrown by a blindfolded person who has never seen the board), that hits the board, will land on a green area?

If the ratio of red flowers to yellow flowers in the local park is 8:4 and there are approximately 900 red or yellow flowers currently blooming in the park, about how many of them are yellow? You may need to round to the nearest whole number.

Robert and Rose are playing a game in which each player either wins, loses, or draws (ties) at each turn. The winner of a turn is awarded 5 points, and the loser loses 5 points. If it is a draw, 0 points are awarded. For the first eight rounds Robert had the following results: lose, win, lose, win, win, lose, win, draw. What was Rose's point total for the rounds?

Megan ran the 100-meter dash in 14.14 seconds yesterday at track practice. Her friendly competitor (and twin sister), Amy, ran it in 14.5 seconds. Megan's time differed from her sister's by what percent? Round your answer to the nearest hundredth of a percent.

If there is a one in six chance of getting a red flower when crossing a red flowered plant with a white flowered plant, how many white flowered plants would be expected in a population of 777 offspring from such a cross?

If it takes one hundred nine gallons of paint to paint a center stripe around a circular track that has a radius of a third of a mile, then how much paint would it take to paint a center stripe around a circular track that had a radius of one-sixth of a mile?

Name: _____

"I have 2 dogs," David began. He was presenting to his class. "I first got Luna and then after that got Daisy. My research is about dog years. Daisy is exactly 5 years old in human years; it's her birthday! Some would say she is 5×7 or 35 years old in dog years. Multiplying human years by 7 to get dog years is so old school."

"Wait, wait!" yelled Clara in the first row. "I know. You take the number of human years, add 3, then subtract 2, and multiply that by 6.32. That means Daisy is 37.92. How old! "

"Not even close," said David. "But I found something better than the multiply by 7 rule. This equation says a dog's first year of life is about 15 human years. A dog's second year equals about 9 human years. Every year after that is about 5 human years. "
How old is Daisy in dog years using David's equation?

"Great job!" said David in his presentation. "But here is a challenge. Luna is older than Clara. Luna is 55.25 years old in dog years using my equation. How old is she in human years? I will give you a hint. Her birthday was 3 months ago."

"Wait, wait!" yelled Clara. "That hint is not very helpful!"

"Just try to figure it out," replied David.

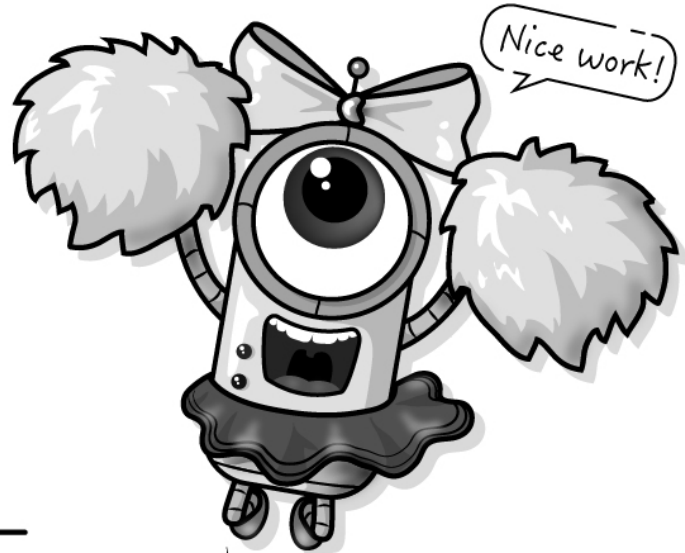
How old is Luna in human years?

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME**☐(Check the
box after
you play.)**MY SCORE**



$$9x - 9.3 = 38.4$$

 $x =$

$$0.0005 \times 0.3$$

Circle the percentage that
is closest to 31 out of 73:

82%

14%

66%

46%

Find the least common
denominator for the
fractions $\frac{2}{10}$ and $\frac{29}{35}$.

$$5 + 21 \div 3 - 72 \div 12 =$$

Simplify.

$$\frac{6}{12} =$$

Name: _____

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

13% of 100



58% of 150

64% of 150



96% of 100

87% of 100



84% of 150

34% of 200



15% of 60

62% of 150



93% of 100

25% of 36



80% of 85

90% of 140



26% of 50

66% of 150



90% of 110

$$\begin{array}{r} 579.957 \\ + 858.95 \\ \hline \end{array}$$

$$\begin{array}{r} 3.3 \\ - 2.71 \\ \hline \end{array}$$

$$\begin{array}{r} 0.55 \\ - 0.439 \\ \hline \end{array}$$

F, M, G, N, H, O, I,

_____, J, Q

$$7 \div \frac{1}{3}$$

Pick the family fact that is missing.

$$70 \div 14 = 5$$

$$70 \div 5 = 14$$

$$5 \times 14 = 70$$

U, N, S, _____, Q, L, O, K,

M, J

Round 78,721 to the nearest hundred.

The perimeter of a rectangle is 24 cm. The longer side is 8 cm. How long is the shorter side?

How much money is 1 quarter, 1 dime, 7 nickels, and 1 penny?

How many minutes is it from 7:00 a.m. to 11:50 a.m.?

It was 79 degrees outside. What would the temperature be if it got 21 degrees colder?

Name: _____

Peter decorated the bulletin board in his classroom with pictures and short stories about women that might be considered "just funny that way"—women like Amelia Earhart, Marie Curie, and Dorothea Dix. The bulletin board was 5 feet high and 7 feet long. If he used 1.4 square feet for each woman, how many women could he put on the bulletin board?

In a chromatography column (basically a long thin tube), there is carbon dioxide flowing at a rate of 12 ml/min. If the maximum flow rate for the column is 134 ml/min, at what fraction of the maximum is the column currently operating? Express your answer as a fraction.

Eric has a headache. He can't stand long lists. "Can you repeat that again?" he asks. "It's easy. Name a number that is greater than 4, less than 16, is a multiple of 9, and FINALLY is a factor of 27," replies Justin.

Figure out the greatest common factor of the following numbers:

3

12

69

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME**☐(Check the
box after
you play.)**MY SCORE**



Write the reciprocal.

$$\frac{2}{1}$$

Write the reciprocal.

$$\frac{16}{23}$$

Write the reciprocal.

$$\frac{14}{13}$$

$$(5 + 13) + 4 = 2(v + 5)$$

What is the value of v ?What is the remainder of
74 divided by 9?

$$18.115 \times 10^2 =$$

Name: _____

Samantha and Caroline went to the mall. Caroline brought some money, and Samantha had even more money. Altogether they had \$62.

"I'm getting these earrings. They're only \$13," says Caroline.

"Don't laugh, but this unicorn bag is \$29. It's a little expensive, but I think I'm going to get it," replies Samantha.

"Hey, did you see the buy 2, get 1 free sign? Want to put our order together and pick out something for free?" asks Caroline.

Samantha gave money for the bag, and Caroline gave money for the earrings.

"That's weird. We now have the same amount of money!"

How much money did Samantha start out with?

Show your work.

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

1	2	1	3	1	2	1	2
4	3	4	2			4	3
1	2	1	3			1	2

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 4 3 2

3	2	4	1	4	2		
4	1	3	2	3	1		
3	2	4	1	4	2	3	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

2 1 3 4

1	2	1	4	1		
			2	3	4	3
	2	1		1	2	1

Hint - These numbers are missing:

2 4 3 3 1 1 4

1	3	1		1		1
4	2	4	3		3	4
	3	1			2	1

Hint - These numbers are missing:

2 2 4 2 1 1

$$\frac{N}{4} = 7$$

$$10m = 70$$

$$16n = 80$$

Name: _____

Fill in the missing numbers.

	1	2	1
3	4		
	1	2	1
3	4		4
1			2

Hint - These numbers are missing:

3 3 2 1

2 4 2

	1		1
3		3	
2		2	
		3	
2	1		1

Hint - These numbers are missing:

3 2 4 2 4

1 4 4 1 2

2		1			4	1
1	3				3	2
	4	1		2		
1	3	2		1		2

Hint - These numbers are missing:

2 4 3 1 3 3

2 1 4 2 4 4

	4			1	3	1
2		2		2	4	
	4	1	4	1		
	3				4	2

Hint - These numbers are missing:

3 1 1 4 3 1 2

3 1 2 3 2 2

4 x 9 = _____

Name: _____

What's in the Box?

Read the words on the left then match the letters with the correct synonyms in the clues.
Put the clues together and solve the mystery of what is in the box.

A =bellow
C =zone
D =gust
E =labor
F =journalist
G =build
H =concern
I =worth
L =view
N =useful
O =story
P =strength
R =fumes
S =contain
T =grumble
W =frosty

Clue 1: might scene shout hold gripe value area
 p l _____
 Clue 2: writer value scene scene toil wind

 Clue 3: area tale tale scene value handy erect

 Clue 4: gripe worry exhaust tale icy handy

 Clue 5: hold might scene shout hold worry

What's in the Box? _____

22 cm = _____ mm	Jessica rolls a die. What is the chance of her rolling a 6? _____	
How many yards are in 27 feet? _____ yards	<div style="display: flex; justify-content: space-between;"> <div> $70 \div 10 = \underline{\hspace{2cm}}$ </div> <div style="text-align: right;"> $\begin{array}{r} 444 \\ + 498 \\ \hline \end{array}$ </div> </div>	
$\begin{array}{r} 24 \\ + 22 \\ \hline \end{array}$	Write the missing family fact. $128 - 52 = 76$ $128 - 76 = 52$ $52 + 76 = 128$ _____	$4 \times 12 =$

word root **dur** can mean **lasting or harden**
durable, duration

Name: _____

$$(20 - 4) - 44 \times 17 - 22 + 27$$

The first step to solve is to calculate $(20 - 4)$. What is the next step?

$$44 \times 17$$

$$22 + 27$$

$$17 - 22$$

$$4 - 44$$

Skill: Order of Operations

What is the sum in simplest form?

$$\frac{3}{8} + \frac{1}{2}$$

Skill: Fractions and Mixed Numbers (addition/subtraction)

Sarah had a long jump of 4.4 meters. Pam's jump was 0.29 meters shorter. How long was Pam's jump?

$$4.4 \div 0.29$$

$$4.4 - 0.29$$

$$4.4 + 0.29$$

$$4.4 \times 0.29$$

Skill: Decimals

Circle the odd negative numbers.

There may be multiple answers.

-2

-9

-17

11

Skill: Positive and Negative Numbers

Match each improper fraction to the mixed number.

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

$$4 \frac{2}{3}$$

$$\frac{10}{3}$$

$$3 \frac{1}{3}$$

$$\frac{14}{3}$$

Skill: Basics of Fractions and Mixed Numbers

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

8

cube of 2

25

square of 5

Skill: Whole Numbers, Factors, and Prime Numbers

Name: _____

The sum of two numbers is 17. The product of the same two numbers is 72. Which of these number pairs are the numbers?

- A) 12 and 5
- B) 12 and 6
- C) 9 and 8
- D) 7 and 5

$$0.6 - 0.3 =$$

- A) 0.7
- B) 0.6
- C) 0.3
- D) 8.3

What number replaces the _____ to make this a true statement?

$$12 \times \underline{\hspace{2cm}} = 72 \times 5$$

- A) 30
- B) 49
- C) 34
- D) penny

Estimate. $614 + 199 =$

- A) 100
- B) 615
- C) 600
- D) 800

$$8000 - 600 =$$

- A) 1,403
- B) 7,400
- C) 7,450

What number is missing from the following sequence?

6, 14, 30, 62, _____, 254, 510

- A) 194
- B) 75
- C) 140
- D) 126

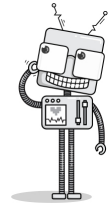
Name: _____

Secret Mission: You have been hired to develop and evaluate robots' math skills. Sometimes, they give thorough, correct explanations. However, they occasionally go haywire.

Robot Rob was given a math problem to solve.

At the mud factory, Purple's job is to scoop up mud and make it into kilogram blocks of mud. She loves her job! Today there were 8,355,632 milligrams of mud trucked in. Each mud block is precisely 1 kilogram, no less, no more. How many mud blocks can she make today?

Robot Rob thinks this might be the answer:



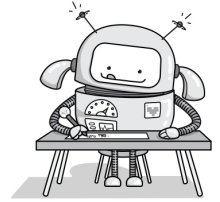
We know that 1 kilogram is 1,000,000 milligrams because a kilo- is 1 thousand and a gram is 1 thousandth of a kilogram. Therefore, if we have 8,355,632 milligrams, we can make 8.355632 kilograms of mud because $8,355,632 / 1,000,000 = 8.355632$ (8355632/1000000=8.355632) 8.35563.2

Since Purple can only make whole kilograms of mud, she can only make 8 mud blocks today and she will have to leave the remaining amount for tomorrow. Answer: 8.

Robot Rob did not explain too much. How do you think Robot Rob could have shown his work better?

Name: _____

He is not sure that is correct, so he asked Robot Rita for help. This is how she tries to solve the problem.



First, a conversion from milligrams to kilograms must be done because the mud blocks are made in kilograms and the quantity of mud is given in milligrams. We know that 1 kilogram equals 1,000,000 milligrams.

The total of 8,355,632 milligrams can therefore be transformed into kilograms by dividing it with 1,000,000. This gives 8.355632 kilograms.

However, since Purple cannot make a fraction of a block, she can only make 8 blocks because she can only make whole blocks. She will have a small amount of mud left over which cannot be used to make a full block. Therefore, Purple can make 8 mud blocks today.

If you were the teacher, how would you grade Robot Rita's work? Explain and also make comments in Robot Rita's work.

Hint: EdHelper's answer pages gave this answer.

GIVE: 1 kilogram = 1,000,000 milligrams

Purple will be able to make 8 kilogram blocks.

☐

I did page 15

☐I decided to skip this page
edHelper**Name:** _____

Remember how the robots gave solving that problem a try? Now it's your turn! Can you solve this cool math problem? Try to walk us through each step, and see if you can come up with an answer even better than the robots did! Is your answer the same as edHelper's?

At the mud factory, Purple's job is to scoop up mud and make it into kilogram blocks of mud. She loves her job! Today there were 8,355,632 milligrams of mud trucked in. Each mud block is precisely 1 kilogram, no less, no more. How many mud blocks can she make today?












Name: _____

Now it's your turn. You've seen how the robots tried to solve this problem, and you corrected their work. Now you try doing it!

At the mud factory, Purple's job is to scoop up mud and make it into kilogram blocks of mud. She loves her job! Today there were 26,879,239 milligrams of mud trucked in. Each mud block is precisely 1 kilogram, no less, no more. How many mud blocks can she make today?

Name: _____

Puzzle:

				405
7		7	7	1,029
				1,215
7		7		2,205
1,323	729	1,323	875	X

Work Area:

				405
7		7	7	1,029
				1,215
7		7		2,205
1,323	729	1,323	875	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.



= _____



















= _____



= _____

Puzzle:

				3,240
				1,000
				2,592
				2,880
1,350	2,560	2,880	2,430	X

Work Area:

				3,240
				1,000
				2,592
				2,880
1,350	2,560	2,880	2,430	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.



= _____



= _____



= _____



= _____

Name: _____

Pay the bill!

Rent is due. Gavin needs to pay his landlord \$2,200. His landlord's name is Maria Young.

GAVIN	1157
	DATE _____
PAY TO THE ORDER OF _____	\$
_____	DOLLARS
MEMO _____	
⑆995055664⑆	⑈63280⑈ 1157

Pay the bill!

Gavin needs money. He wants to get \$60 in cash, so he writes a check payable to cash in this amount. Write this check.

GAVIN	1158
	DATE _____
PAY TO THE ORDER OF _____	\$
_____	DOLLARS
MEMO _____	
⑆995055664⑆	⑈63280⑈ 1158

Change $\frac{15}{20}$ to a decimal.

$$3 \overline{) 1.2}$$

$$\begin{array}{r} 0.641 \\ \times \quad 2 \\ \hline \end{array}$$

Round the decimal 0.735 to the nearest hundredth.

Estimate quickly the difference.
5,800 - 1,810

54 divided by 6 equals

Name: _____

Pay the bill!

Pam received a bill from Central Water for \$251.76. Write the check as Pam would write it.

PAM	1417
DATE _____	
PAY TO THE ORDER OF _____ \$ 	
_____ DOLLARS	
MEMO _____	
⑆994051758⑆ ⑆60657⑆ 1417	

Pay the bill!

Pam received a bill for her cellphone from Mobile Unlimited for \$52.23. Write the check as Pam would write it.

PAM	1418
DATE _____	
PAY TO THE ORDER OF _____ \$ 	
_____ DOLLARS	
MEMO _____	
⑆994051758⑆ ⑆60657⑆ 1418	

$$\begin{array}{r} 51 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 627 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 440 \\ \times 4 \\ \hline \end{array}$$

261, 225, 192, 162, 135, 111,
90, 72, _____, 45, 36

The perimeter of a rectangle is 20 cm. The longer side is 8 cm. How long is the shorter side?

$$29 + n = 42$$

What is the value of n?

☐

I did page 20

☐I decided to skip this page
edHelper

Name: _____

Rewrite $\frac{4}{25}$ as a decimal.

$$6 + (55 \div 5) - 48 \div 12 =$$

In what quadrant would you find the point $(-4, 11)$? $\frac{2}{3}$, _____, $1\frac{1}{3}$, $1\frac{2}{3}$,
2, $2\frac{1}{3}$, $2\frac{2}{3}$, 3, $3\frac{1}{3}$,
 $3\frac{2}{3}$, 4, $4\frac{1}{3}$, $4\frac{2}{3}$, 5,
 $5\frac{1}{3}$, $5\frac{2}{3}$, 6, $6\frac{1}{3}$

A circle graph has five sections. Only four sections are labeled. The labels are 10%, 32%, 8%, and 7%. What should the missing section be?

Write as an algebraic expression.

293.7 multiplied by the sum of x and w

Simplify.

$$\frac{40}{48} =$$

What is the greatest common factor of the numbers 128 and 64?

$$8.1246 \times 10^4 =$$

Circle the greatest amount:

24%

0.43

$$\frac{7}{25}$$

Simplify.

$$\frac{12,000}{13,500} =$$

If $x = -9$ and $s = 47$ then what is the value of z?

$$10x + 9s - 3s = z$$

Name: _____

$\frac{1}{5}$, (1), (5), (25),
_____, (625), (3,125),
(15,625), (78,125)

$$\frac{20}{48} \div \frac{8}{12} =$$

$$|-5| - j = -2$$

$$j =$$

At the dive meet Hunter received scores of 5.2, 3.5, 3.1, 3.9, and 4.3. The largest and smallest scores were dropped and the rest were averaged for a final score and rounded to the nearest tenth. What is the final score Hunter received?

$$(0.5)(0.14)$$

$$0.8 (0.6 (0.8 \times 3)) =$$

Rewrite $\frac{3}{5}$ as a decimal.

$$14m - 24.3 = 59.7$$

$$m =$$

$$|-12| - m = 18$$

$$m =$$

$$3 \times 39 \div 3 - 63 \div 9 =$$

$$9 \times 9 \times 9 = 9^x$$

What is the value of x?

Rewrite as an algebraic expression or equation.

Fifteen subtracted from a number is forty-six.

☐

I did page 22

☐I decided to skip this page
edHelper

Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

How many centimeters in
880.7 meters?

It was 90 degrees outside.
What would the
temperature be if it got 24
degrees colder?

Estimate quickly the
difference.
 $5,170 - 1,740$

Know how many inches in
a foot? Okay, smarty pants,
how many inches in 3 feet?

It was 3 degrees below
zero in the morning. By
afternoon the temperature
rose 19 degrees. How
warm was it?

A rectangle is 24 cm on
one side and 15 cm on
another side. What is the
perimeter?

What 6 coins add up to 65
cents?

Round 5,308 to the nearest
thousand.

4, 8, 12, 16, 20, _____, 28,
32, 36, 40

5, 5, 7, 5, 5, 5, 5, 7, 5, 5,
5, 5, _____, 5, 7, 5, 5, 5,
5, 5, 5, 5, 5, 7, 5, 5, 5, 5

Draw a number line
with 0, $\frac{1}{2}$, and 1. Show
where $\frac{6}{12}$ would go. Is
 $\frac{6}{12}$ closer to 0, $\frac{1}{2}$, or 1?

What is the area of a
rectangle with sides 5 cm
and 10 cm?

Name: _____

75	+9		$+\frac{2}{3}$		-18		$+\frac{1}{2}$		
				$+3\frac{2}{3}$					
				+19					
$-\frac{1}{4}$		+34							
					+57				
$+\frac{1}{2}$		-52		$+6\frac{1}{4}$	$95\frac{5}{6}$				

		+38
		$-1\frac{2}{3}$
	+37	
	$+\frac{1}{2}$	
	+17	$230\frac{2}{3}$

$\begin{array}{r} 57 \\ - 10 \\ \hline \end{array}$	<p>April told Emma that she multiplied two consecutive whole numbers and the answer is 240. Emma doesn't believe that is possible. She thinks Emma must have multiplied wrong. Who is correct?</p>	<p>Erin is going to roll two dice. What is the chance that her total will be either 7 or higher on her first roll?</p>
---	--	--

Name: _____

Draw a number line. Label 0 up to 5.

Then mark approximately where you

think $\frac{3}{4}$ and $4\frac{4}{5}$ should go.

Is $2\frac{2}{3}$ closer to $\frac{3}{4}$ or $4\frac{4}{5}$?

Megan and Erin are playing games on their phones. Who spent the least amount of money?

Megan bought an avatar for 155 FunBucks. She also bought some stickers for 38 FunBucks.

Erin bought a badge for her avatar for 31 PlayBucks.

1 US Dollar = 45 FunBucks

1 US Dollar = 7.4 PlayBucks

Circle the three largest numbers.

$$\frac{1}{5} \quad \frac{1}{3} \quad 4.06$$

$$5 \quad 0.05 \quad 0.5$$

$$0.4 \quad 5.01 \quad \frac{1}{4}$$

$$0.03 \quad 3.09 \quad 0.04$$

Circle the one that is smaller.

a. $\frac{62}{6}$ or $\frac{62}{7}$

b. $53\frac{1}{3}$ or $53\frac{1}{4}$

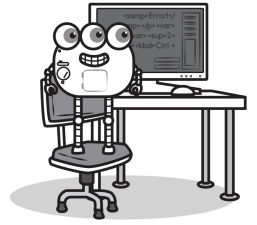
c. $\frac{1}{5}$ or $\frac{1}{4}$

d. $\frac{1}{6} + \frac{1}{6}$ or $\frac{1}{5} + \frac{1}{5}$

e. $20 - \frac{1}{5}$ or $20 - \frac{1}{4}$

Name: _____

Robot was given a math problem to solve.



Wendy planted 10 strawberry plants. For four weeks in a row, each plant produced 5 strawberries. Wendy shared her strawberries equally among her 7 best friends and herself. How many strawberries did each person get?

Robot wrote this program in Python to solve it.

```
# Number of strawberry plants that Wendy planted
strawberry_plants = 10

# Number of strawberries each plant produced for four weeks
strawberries_per_plant = 4 * 5

# Total number of strawberries Wendy got
total_strawberries = strawberry_plants * strawberries_per_plant

# Number of people among whom the strawberries are shared including Wendy herself
total_people = 7 + 1

# Calculate how many strawberries each person got
strawberries_per_person = total_strawberries // total_people

print(strawberries_per_person)
```

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

What will the program print out? Fill in the blanks.



Quick Hints

For //, you divide, round DOWN to the nearest integer, and drop any remainder.
For * you multiply the two numbers.

Hint

To multiply in Python * is used.

Name: _____

Mr. David has created a new machine that uses water, corn, bananas, and mashed potatoes and it can make curly popcorn.

Yummy!

He can make five and three-quarters cups of popcorn with his machine every thirty seconds. He wants to try to make a hundred cups for a party. Assuming his machine will last (Don't worry, it won't!), how long do you think this will take?

Let's give him a two-minute break every twelve minutes.

Show your work.

Name: _____

CHALLENGE YOUR CLASSMATES!

(OR SIBLING OR PARENT)

Play against
someone!

Go to:

edhelper.com/math-games.htm

Pick your
grade. Then play
to challenge
someone else.

Date played:

Whom I challenged:

Who won?

Explain what you learned from one math problem you got wrong.

YOU
WIN!

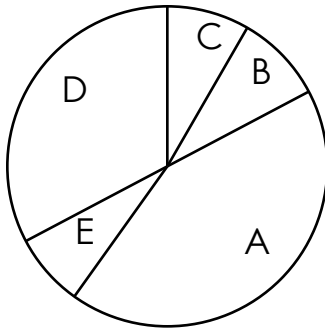
$$11 \times 2 - 2 - 3 + 9$$

Rewrite $\frac{17}{20}$ as a decimal.

$$(4 + 15) + 9 = 2(v + 12)$$

What is the value of v ?

Name: _____



This circle has been split up into five parts. Approximately what percent is each of the letters? You do not need to be exact, but your answers should make sense.

A = _____ % B = _____ % C = _____ %

D = _____ % E = _____ %

 $A + B + C + D + E = 100\%$

Emma is testing her new game, Beat the Balance, with her friends Emily and Holly. She gives each player four coins. In the center between them is a balance beam. Then, she tells the players that one of the coins is fake and weighs more than it should. The object of the game is to take turns using the balance beam to determine the fake. If you were playing this game, explain your moves. How many weighings will you need to determine the fake?

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

A pattern is represented in the boxes. The number 10 is in row 2, column 4.

a. If the pattern continues, in which column is 34?

b. If the pattern continues, in which column is 111?

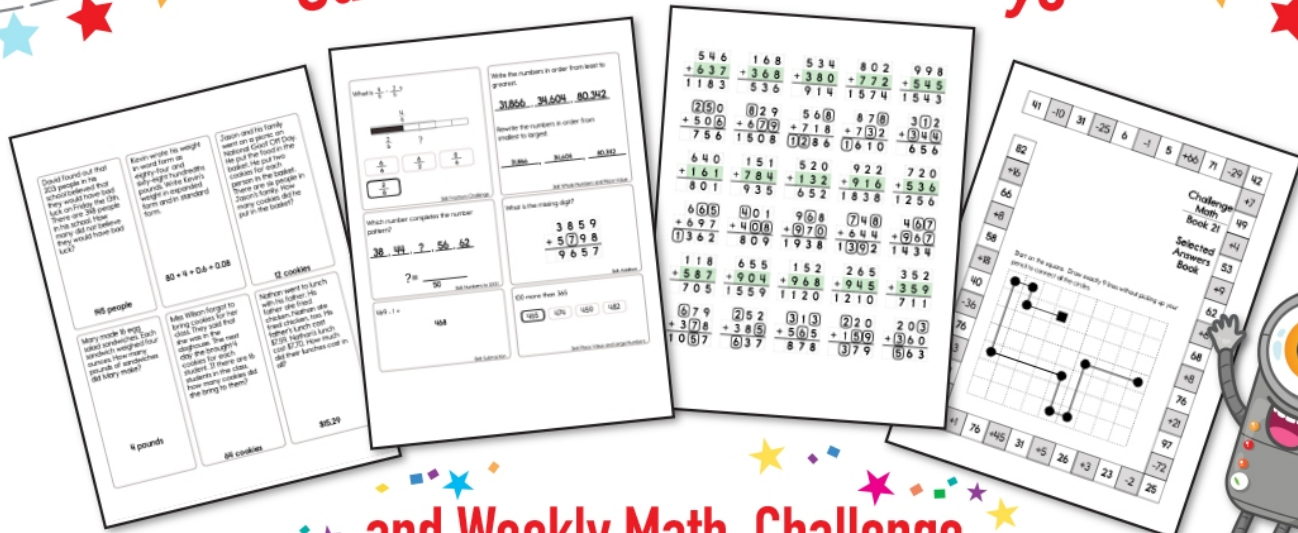
c. If the pattern continues, in which column is 474?

Points	136	176	216	256	296
Zinks	17	22	27	32	37

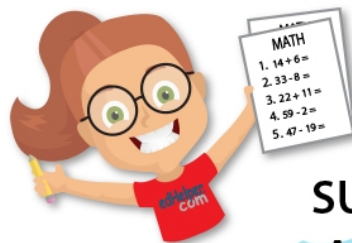
Zinko Candies has a rewards program. You can trade reward points for Zinks, which is a type of candy that only Zinko Candies sells! Jason has 276 reward points. How many Zinks can he get?

What is the relationship between reward points and how many Zinks you can get?

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