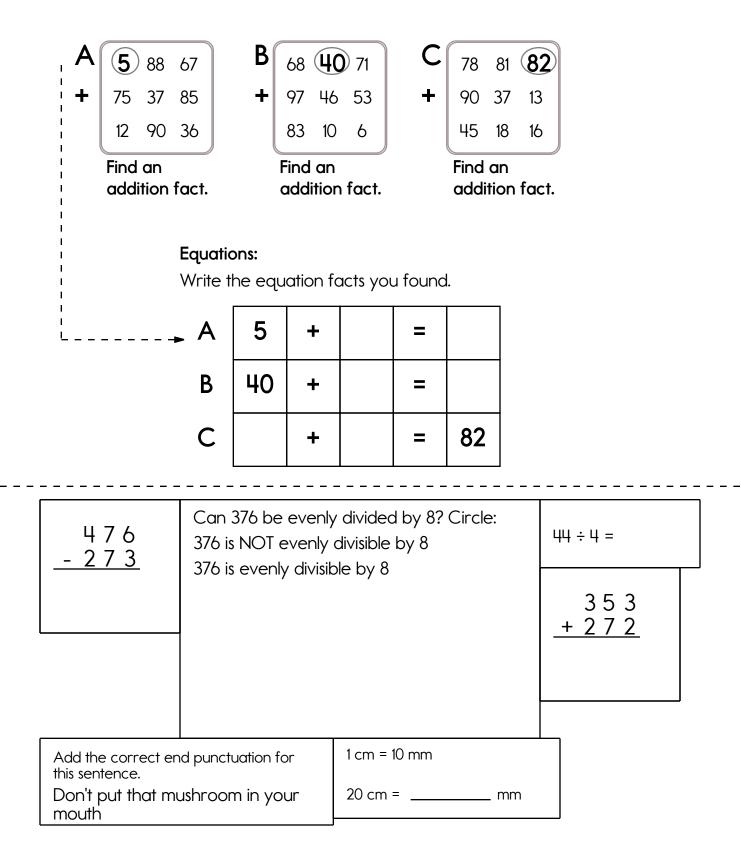
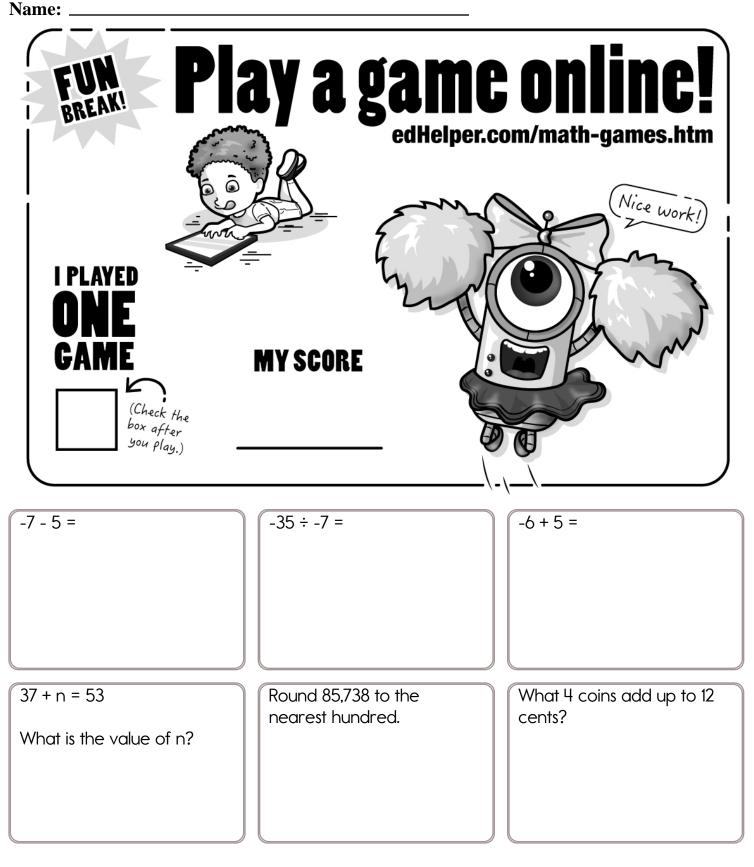


Ready to make equations? There is a missing equation in each box. Circle the numbers once you find it!





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Name: \_

edHelper

Robot was given a math problem to solve.

It was Harry Potter's birthday. He was 14 years old. It was so much fun having a party at Hogwart's with his friends! If he had come to Hogwart's when he was 13 years and four months old, how long had he been there?

Robot wrote this program in Python to solve it.

# Harry's current age in years current\_age\_years = 14

# Convert Harry's current age to months
current\_age\_months = current\_age\_years \* 12

# Harry's age in years and months when he came to Hogwart's arrival\_age\_years = 13 arrival\_age\_months = 4

# Convert Harry's arrival age to months
arrival\_age\_total\_months = arrival\_age\_years \* 12 + arrival\_age\_months

# Calculate how long Harry has been at Hogwart's
hogwarts\_duration = current\_age\_months - arrival\_age\_total\_months

# Print the duration print("Harry has been at Hogwart's for", hogwarts\_duration, "months.")

Robot's program will print the answer to the math problem. What will the program print out? Fill in the blanks.

Harry has been at Hogwart's for \_\_\_\_ months.



**Quick Hints** For \* you multiply the two numbers.

Name:			I did page 6	I decided to	o skip this page edHelper
	6	6	6	6	

Jimmy has played 14 baseball games so far this season. He's had 50 at-bats. Of those 50 at-bats, he has had 4 walks, 8 strikeouts, 12 singles, and 3 doubles.

That doesn't add up to 50 because he often pops up or grounds out. A couple of times he has even fouled out.

Today Jimmy is playing Billy's team.

ø Х

"We're going to win," Billy says to Jimmy.

"Good luck with that! I'm going to go 4 for 4 and hit for the cycle," Jimmy says back.

Jimmy is probably going to have four chances at bat. Based on what he's done in the past 14 baseball games, what do you think he'll do today?

There is no one answer. Explain your reasoning and be sure to try to back it up!

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## Simplify each fraction. Draw lines between equal fractions. <u>45</u> 108 35 50 5 12 1 3 <u>49</u> 70 5 <u>35</u> 42 4 12 Write as a decimal. Write as a decimal. Write as a decimal. Eleven and four tenths 9 <u>57</u> 100 $5\frac{1}{10}$ What is the sum of 50 and triple 90 = How many total legs are on 409? 5 zebras and 3 owls? Maria has 40 books. She Hannah bought six candy Round 107 to the nearest organized them equally bars. It cost \$3.96. How ten. into 5 boxes. How many much did each candy bar books in each box? cost? Circle the greatest number: 7 kg = \_\_\_\_\_ g 175,938,152,093 74.864

Name: \_

6,439,025,871

2.604

At the science fair, Maria and Alex put together their own remote control vehicles. Mrs. Garcia is walking around in the back of the school to check them out.

"My model truck can go 12.8 mph, and its battery can last 33 minutes," says Maria.

"Well, my car can go 13.5 mph," interrupts Alex. "And it can last 28 minutes."

Mrs. Garcia decides to put them both on a track to test. She runs them both for 38

minutes without any additional charges. Which car will go farther? By how many miles?

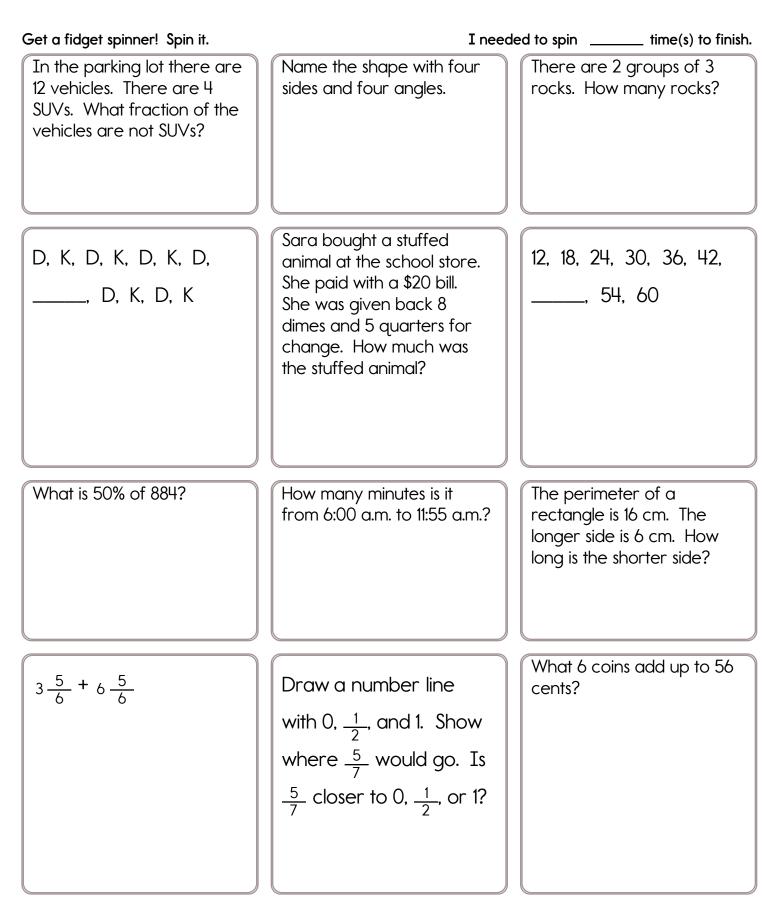
Alex was having so much fun making cupcakes for his class. He made  $2\frac{5}{6}$  dozen of them! But there are only 20 kids in his class. Everyone ate one cupcake except for Emily, who does not like cupcakes. How many cupcakes are left over?

Name:		
I PLAYED ONE	BY B GARGE edHelper.c	om/math-games.htm
11 x 10 x 9	A toy car can go 4 mph. How long would it take to go 10 miles?	84 divided by 12 equals
Circle the three numbers		
whose product equals 792.	C, F, I, L,, R, U, X	45, 54, 63,, 81, 90,
12 3 4		99
22 22 13		
16 22 23		

Name:						
	+	31			89	
		91		157	149	
		+ <u>31</u>	+		+ <u>89</u>	+
		52			110	85
		+ <u>_31</u>	+	+	<u>+ 89</u>	+
	91		117			155
	/1	<u>91 + 31</u>	<u>_91</u> +	<u>_91</u> +	<u>91 + 89</u>	<u>_91</u> +
			66	137		
		<u>+_31</u>	+	+	<u>+ 89</u>	+
	45					109
		<u>45 + 31</u>	<u>45</u> +	<u>45</u> +	<u>45 + 89</u>	<u>45</u> +
Which is the lar	gest?					/ 11
82.4 ÷ 7.4 8	2.4 ÷ 7.5	82.4 ÷ 7.6	)	4 2 + 3 8		64 <u>28</u>
Circle the digit	in the tent	hs place.		ite a letter		o or
43.487				re lines of s	symmetry.	

Name: \_\_\_\_

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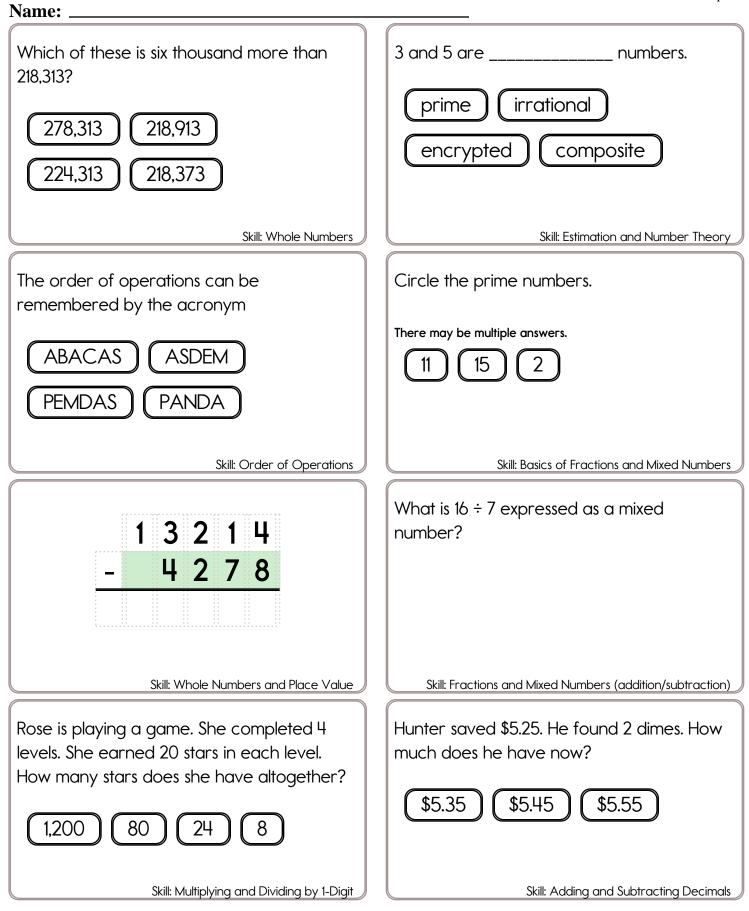


Name: \_\_\_\_\_



Spin again.	I need	ed to spin time(s) to finish.
triple 20 =	At 1 p.m. today, Jessica will not be able to use her electronics for 4 hours. At what time will she be able to resume using her phone?	108 ÷ 9 =
Is 33 a composite or a prime number?	28 ÷ 7 x 9	32, 39, 46, 53, 60, , 74, 81
It was 2 degrees below zero in the morning. By afternoon the temperature rose 25 degrees. How warm was it?	How much money is 1 quarter, 8 dimes, 1 nickel, and 1 penny?	It was 6 degrees above zero in the morning. By afternoon the temperature rose 28 degrees. How warm was it?
Rosa has 6 cookies. She and her 2 friends shared them equally. How many cookies did Rosa keep?	How many minutes is it from 6:00 a.m. to 11:20 a.m.?	Draw a number line with 0, $\frac{1}{2}$ , and 1. Show where $\frac{7}{10}$ would go. Is $\frac{7}{10}$ closer to 0, $\frac{1}{2}$ , or 1?

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Name: \_

### Help Improve the Robots

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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.

In a game, Pam and Mary each have their own territory and currency. When you visit Pam, you will use whatters. On the other hand, if you visit Mary, you will use clingdones. The value of one whatter is equal to 4.4 clingdones. Mary wants to visit Pam. She has 22 clingdones, so she exchanges half of her clingdones for whatters. The exchange place rounds to the nearest tenth on exchanges. How much in whatters and clingdones does Mary currently have?

## Robot Rob thinks this might be the answer:

Each whatter costs 4.4 clingdones and she exchanges half her clingdones, so that's 22 clingdones / 2 = (22/2=11) 11 clingdones. 11 clingdones / 4.4 clingdones/whaters = (11/4.4=2.5) 2.5 whatters They round to the nearest tenth, so she has 2.5 whatters = (2.5=2.5) 2.5 whatters She exchanged half her clingdones, so she has 22 clingdones - 11 clingdones = (22-11=11) 11 clingdones She has 2.5 whatters and 11 clingdones. Answer: 2.5, 11.

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



First, let's determine the amount of clingdones Mary is planning to exchange. Half of 22 clingdones is 11 clingdones.

Now we'll find out how many whatters 11 clingdones can be converted into. We know that one whatter is equivalent to 4.4 clingdones, so we'll divide 11 by 4.4. This gives us approximately 2.5 whatters. But since the exchange place rounds to the nearest tenth, this is rounded to 2.5 whatters.

So after the exchange, Mary has 2.5 whatters and 11 clingdones left (since she only exchanged half of her original 22 clingdoes).

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.

Mary now has 2.5 whatters and 11 clingdones.

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?

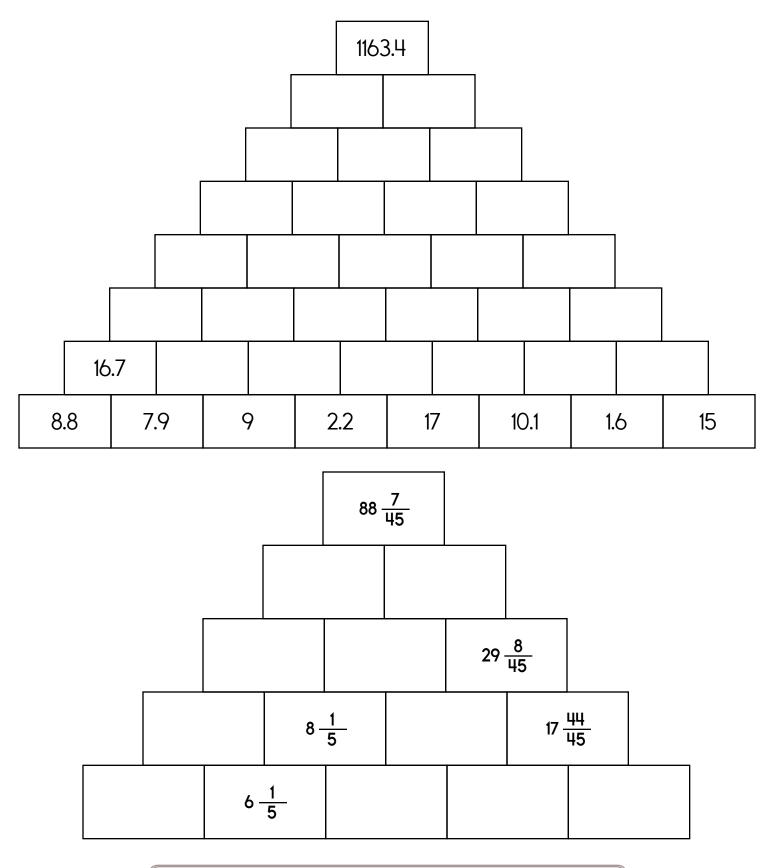
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Now, it's your moment to shine! After observing the robots' attempts and fine-tuning their efforts, it's your turn to step up and give it a go!

In a game, Ava and Hannah each have their own territory and currency. When you visit Ava, you will use whatters. On the other hand, if you visit Hannah, you will use clingdones. The value of one whatter is equal to 7.3 clingdones. Hannah wants to visit Ava. She has 52 clingdones, so she exchanges half of her clingdones for whatters. The exchange place rounds to the nearest tenth on exchanges. How much in whatters and clingdones does Hannah currently have?

#### Name: \_

The block above is the sum of the two blocks below. Fill in the missing blocks.



word root aqua can mean water aquarium, aquatic

### edHelper.com/fifth\_grade.htm

#### Name: Ava created a game where players collect stars and can trade in stars for gold coins at the shop. Complete the table by filling in the 2 missing numbers. Stars 6 12 24 30 42 4 **Gold Coins** 1 2 3 5 6 7 The store only sells whole gold coins. If you have 13 stars, then what is the highest number of gold coins that you could get? The game will end when you get 19 gold coins. How many stars will you need to collect before you will win? \_\_\_\_\_ Ava checked her program. It uses this equation: Stars = Gold x 6She decided to change the program to use this equation: Stars = Gold x 8Fill in this chart to show what the table will look like after she makes this change. Stars Gold Coins

On the planet Z	inkee they us	e Quinkoos t	o pay for eve	erything.				
Complete the table by filling in the 2 missing numbers.								
U.S. Dollars \$43 \$129 \$172 \$215 \$301								
Quinkoos	1	2	3	4	5	6	7	

Write an equation showing the relationship between U.S. Dollars and Quinkoos.

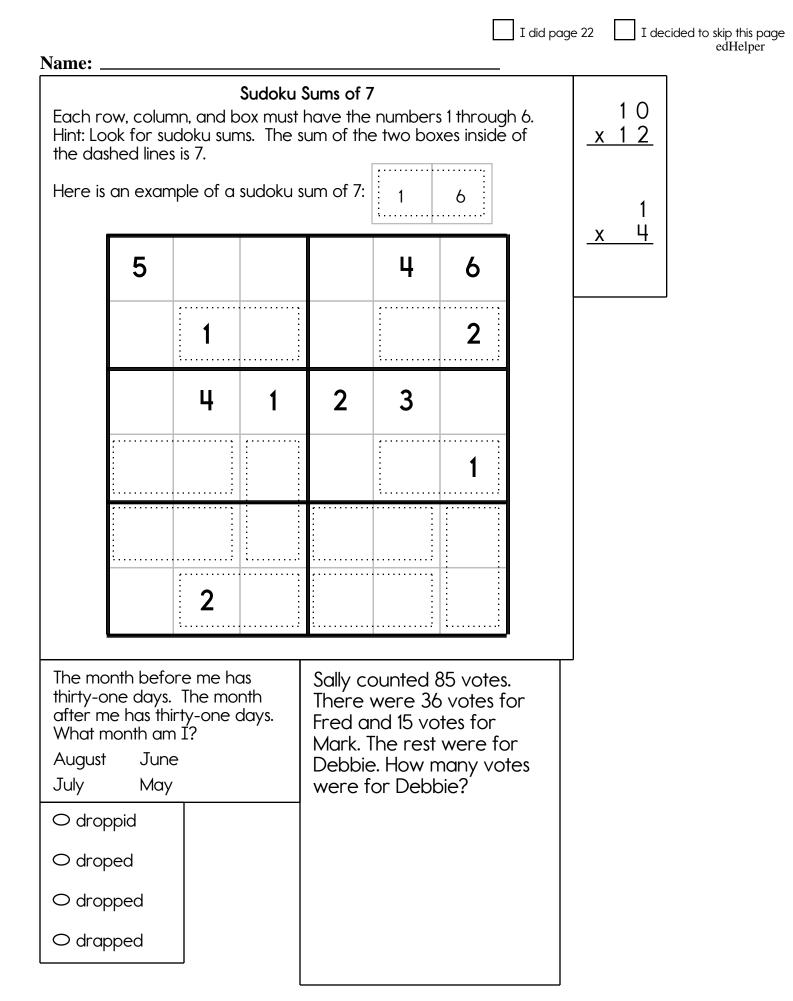
When you arrived in Zinkee, you were given 11 Quinkoos. You spent 4 Quinkoos and exchanged what you had left for U.S. Dollars. How much money in U.S. Dollars were you given?

Draw a picture of what you think 1 Quinkoo could look like.

Name:			did page 20 I decided to skip this page edHelper
Which number is the smalles	t? Which numbe	r is the largest?	
What is the difference betw	een the largest c	and smallest numbe	ers?
7.568	7.58	7.567	7.5680
$8 + \frac{4}{5} + \frac{6}{7} =$	5 - <u>6</u> - <u>1</u>	<u> </u> =	Reduce $\frac{4}{22}$ to its lowest terms.
This number is one thousand less than 7,423.	What is 19 less	s than 1,299?	15, 17,, 21, 23, 25, 27, 29, 31
How many centimeters are in 60 m centimeters	millimeters?	common?	o these words have in egraph, pictograph

Name:				I did p	bage 21	I decided to	o skip this page edHelper
Which digit is in the	e millions pla	ice in the nun	nber 526,471,89				
Write the number	that this dig	it represents.					
Round 535 to the ne hundred.	earest	What numb between 58	per is halfway 3 and 62?		[t cost \$	ught six can 3.24. How r n candy bar	nuch
13 + + 26 = 57		7 + 3 - 7		f	or dollc	xchange 110 Irs, then hov vould you ge	v many
36 ÷ 3 =	ouch	three interje dreary	ections. hurray		nany dia nt year?	gits are in th	e
	glisten	eek	rumor				

I did page 21



Name:	I did page 23 I decided to skip this page edHelper
Two games require players to collect gold coins. Here is how many coins are needed for each level of the game Umba: Level 1: MMMMM Level 2: MMMMMMMM Level 3: MMMMMMMMM Coins needed for each level of the game Yinka: Level 1: MMM Level 2: MMMMMMM Level 3: MMMMMMMM Did you notice each game follows a pattern? Which game would require the most coins to complete level 6?	<ul> <li>Holly and Emma are weighing their rock and fancy stone collections. Whose collection weighs the most?</li> <li>Holly has five red stones that each weigh eleven ounces, six yellow stones that each weigh nine ounces, and some bigger rocks that altogether weigh exactly fifteen pounds.</li> <li>Emma has three green stones that each weigh ten ounces, four blue stones that each weigh eight ounces, and some bigger rocks that altogether weigh exactly sixteen pounds.</li> </ul>
Each M is equal to 2 gold coins.	1 pound = ounces
Which amount of time is shorter? 320 minutes or 6 hours?	Rose is playing a game against Amy. They have to find blocks and bring them back to their digital house. After ten minutes of play, the one with the most blocks wins. Who is currently winning?
320 minutes or 5 hours?	Amy has between 30 and 41 blocks. When she puts her blocks into piles of 8, there will be 1 block left over. When she puts her blocks into piles of 5, there will be 3 blocks left over.
235 seconds or 6 minutes? 1 hour = minutes 1 minute = seconds	Rose has between 30 and 41 blocks. When she puts her blocks into piles of 8, there will be 6 blocks left over. When she puts her blocks into piles of 5, there will be 3 blocks left over.

Name:
Cross off the number that does NOT belong.
4, $3\frac{20}{25}$ , $3\frac{15}{25}$ , $3\frac{10}{25}$ , $3\frac{5}{25}$ , 3, $2\frac{20}{25}$ , $2\frac{15}{25}$ , $2\frac{10}{25}$ ,
$2\frac{9}{25}$ , $2\frac{5}{25}$ , <b>2</b> , $1\frac{20}{25}$ , $1\frac{15}{25}$ , $1\frac{10}{25}$ , $1\frac{5}{25}$ , <b>1</b> , $\frac{20}{25}$
Why does not belong in the pattern?
Subtract $\frac{1}{5}$
Cross off the number that does NOT belong.
46, 48, 50, 54, 58, 64, 70, 78, 85, 86, 96, 106, 118, 130, 144
Why does not belong in the pattern?

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Name:		

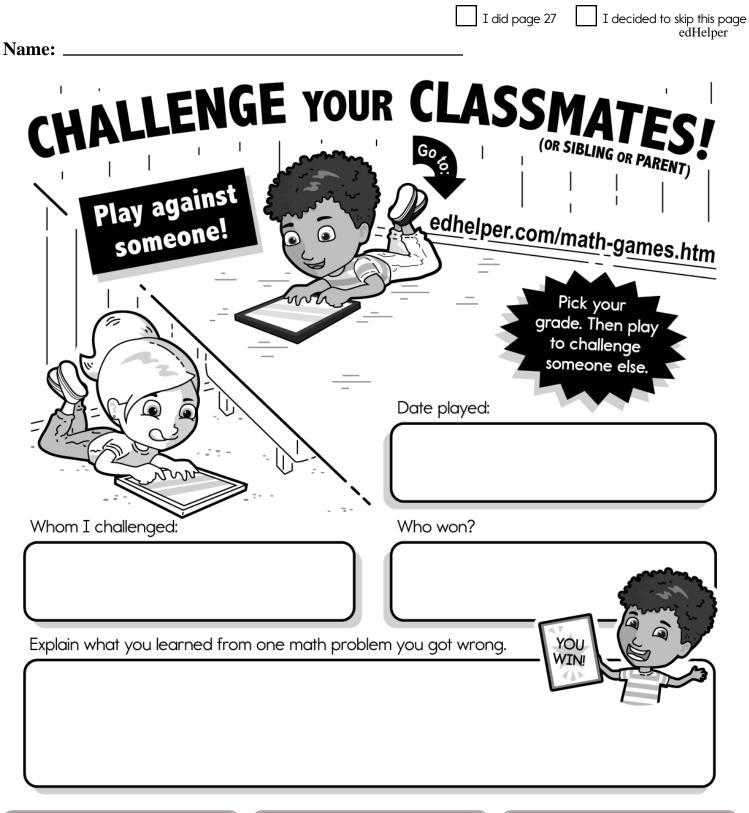
Gemma is having a spring party. She is creating themed platters of food for the party. She has 16 mashed potato flower beds and 8 mulch meat loaves.

How many guests can Gemma have at her party if each meat loaf serves four and each decorative mashed potato mound serves two?

Will there be any food left over?

Name:	I did page 26	I decided to skip this page edHelper
Write your own math problem here.		

Ask the person who helped you to try to solve your problem.



What is the area of a rectangle with sides 3 cm and 6 cm?

The perimeter of a rectangle is 22 cm. The longer side is 9 cm. How long is the shorter side? It was 7 degrees below zero in the morning. By afternoon the temperature rose 22 degrees. How warm was it?

Name:							
A pattern number 19 a. What nu b. If the p would be	is in umbe atter	row er is ir n cor	2, col n row ntinue	lumn v 4, cc es, wh	3. blumn	2?	Find two consecutive numbers that have a sum of 131. Find three consecutive numbers that have a sum of 99.
c. If the p would be	atter in ro	n cor w 7, c	ntinue colum	es, wh in 4?	iat nu	ımber	
How many boxes dow the patter	vn da	) you	think	the i	next s		$ \begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\ 1 & 1 & 1 & 1 & 15 & 16 & 17 & 18 & 19 & 20 \\ 1 & 1 & 1 & 1 & 15 & 16 & 17 & 18 & 19 & 20 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 &$





