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Name:	
The measures of two angles in a triangle are in the ratio of 2:2. The measure of the larger angle is ninety-six degrees less than three times the smaller angle. What is the measure of the smaller angle?	The measure of an angle is one hundred eighty-three degrees less than two times the measure of its supplement. What are the measures of the two angles?
The measures of two angles in a supplementary triangle are in the ratio of 4:16. What is the measure of the larger angle?	The measure of an angle is two-thirds the measure of its complement. What is the measure of the smaller angle?

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nan 7.9.	20	

Circle all of the numbers that are greater than 7.9.				
<u>188</u> 24	7 <u>1</u>	<u>17</u> 2	<u>32</u> 5	
<u>-29</u> -4	<u>28</u> 3	7 4	<u>40</u> 6	
$\frac{23}{3}$	<u>234</u> 30	<u>30</u> 4	<u>48</u> 6	
7.160	7.13	7.0170	7.011	

Name:

The (make-believe) country of Slowmonia is always super slow. But they are hard working, and after 19 years of research, the country of Slowmonia launched a rocket into space to land on Pluto. It is slow! It travels 3.916 kilometers in a month. How far will it travel in 58 years?

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A number is ten more than five times another number. Their sum is one hundred seventy-eight. What are the numbers?	What number, when divided by six less than the number, is $1\frac{3}{22}$ ?
What number, when divided by eight more than the number, is $\frac{11}{13}$ ?	A number is five times as large as another number. Eight times the smaller number is one hundred five more than the smaller number. What are the numbers?

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#### 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:  $6\frac{7}{9}$ ,  $7\frac{2}{5}$ , or  $2\frac{2}{9}$ . The other three numbers have to all be DIFFERENT and must be from these:  $9\frac{8}{9}$ ,  $1\frac{4}{9}$ ,  $\frac{1}{9}$ , or



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Grace has 3 liters of a mixture containing 65% of boric acid. How much water must be added to make the mixture 52% boric acid?	Andrew has 8 pounds of a mixture containing 35% Columbian coffee and the rest Kenyan coffee. He wants to adjust the blend to have 45% Kenyan coffee. If he can add a mixture, which contains 25% Kenyan coffee, how much should he add?
How many pounds of coffee selling for \$1.97 a pound should be added to five pounds of coffee selling for \$4 a pound to create a blend, which will sell for \$3.42 a pound?	Andrew has 8 liters of 60% acid. How much water should he add to make a solution that is 24% acid?

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The EdHelper Supermarket is donating one percent of this month's sales to the local high school. If the high school hopes to raise \$440 this month, how much sales will the supermarket need to have in order to reach the goal?	Daniel is a real estate agent. Daniel just sold a house for his client, Grace. Grace paid Daniel seven percent commission on the selling price. Grace received \$247,380 after paying the commission for the house. How much did Daniel receive?
Anna is a real estate agent. Anna just sold a house for her client, William. William paid Anna nine percent commission on the selling price. William received \$245,700 after paying the commission for the house. What was the actual selling price of the house?	In Christopher's algebra class, Christopher scored 86% on the exam by answering twenty questions correctly. How many questions did Christopher answer incorrectly?

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	x	С	С	В	13		
	+	С	?	С	7		
	_	С	С	С	9		
		90	72	54	-		
Equations and	d Hint	s:					
Each letter is a w Fill in the equation	hole r ns usir	number. ng the cha	rt:				
C + C - C =	= 9 _ =	x 54	C + C	= 90	+_	=	13
B < 11 C =	= A ·	+ 2					
	 ]						
Show Work:	]						

_	Solve	
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Ms. Wilburson's candy store is selling lots of Super Chompers (a kind of candy bar). The numbers of Super Chompers she sold per hour for the first 5 hours of the day are 32, 46, 72, 92, and 94. How many did she sell in those first five hours?	How many 5-letter combinations are possible from the first eight letters of the alphabet?
What is the probability of choosing a heart from a standard deck of 52 randomly arranged playing cards?	Jack studied some slides that showed onion cells undergoing mitosis. He found 18 cells in metaphase, 20 cells in anaphase, 22 cells in telophase, and 13 cells in prophase. If there were a total of 104 cells on the slide, what is the probability that any particular cell will be found in some stage of mitosis?
During a root enzyme experiment, Holly determined the dry weight of mustard roots so she could make some calculations. These were pretty small mustard plants so she had to use a good balance to get the data. She measured one set (A) of roots and obtained masses of 0.07, 0.09, and 0.08 grams. Another set (B) had masses of 0.07, 0.05, and 0.04 grams. Which set had the greatest average mass?	Analysis by the marketing department of the local minor league baseball team showed that for every fan who bought a hotdog at the ball park, about half that many people bought a bag of popcorn. So far this year, 34,011 people have been to the ballpark, and $\frac{1}{8}$ of them bought hotdogs. Based on this information, about how many fans bought popcorn?

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At Mr. Bloop's summer sports camp, $\frac{1}{4}$ of the total participants came to learn about soccer. The rest came to learn about other sports. If 83 participants showed up, how many were not there to learn about soccer?	Hunter hit a home run that went 330 feet on Saturday. On Monday, he hit one that went 318 feet. The distance of the second home run was what percent of the first home run? Round your answer to the nearest whole number.
Mr. Waffle is a circus clown. He starts the day with forty pieces of candy. At the end of the day, he has given away 210 pieces of candy. How many more pieces of candy did he have to get, in addition to his original forty, to be able to give away that many pieces?	Geotest, Inc. drilled a hole in a granite batholith that was 941 meters deep. Globomax, Inc. drilled one in the same formation that was 1213 meters deep. What was the difference between the depths?
Racer Joe made four laps around Smallville Racetrack with an average speed of 180.7 miles per hour. Speedy Bob made a set of four laps with an average speed of 197.2 miles per hour. Bob's speed was what percent of Joe's speed? Round your answer to the nearest hundredth of a percent.	Professor Sneed is slowly reviving alien skin cells from deep freeze storage. If the temperature rises too quickly, the cells will die. In fact, if the temperature rise is greater than 1.4°C per minute, they will die. She takes the cells out of the freezer and begins to slowly warm them. She warms them at a constant increase in temperature from -62°C to 74.8°C in 1 hour and 12 minutes. Do the cells live or die?

### Page 1 Answers

1	48°
2	59° and 121°
3	144°

4 <sub>36°</sub>

## Page 3 Answers

- 1 28 and 150
- **2** 50
- **3** 44
- **4** 15 and 75

# Page 5 Answers

- $1_{\frac{3}{4} \text{ liters}}$
- 2 8 pounds
- 3 2 pounds
- **4** 12 liters

# Page 6 Answers

- 1 \$44,000
- 2 \$18,620 (the house sold for \$266,000)
- **3** \$270,000