
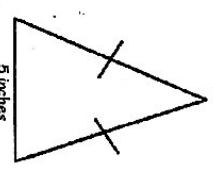
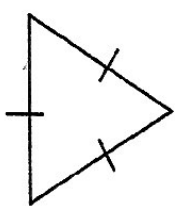
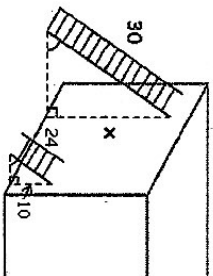


<p>1. The rectangle below has a length of 7 centimeters and a width of 3 centimeters.</p>  <p>Three centimeters are subtracted from the length, and c centimeters are added to the width. The area of the new rectangle is 32 square centimeters. What is the value of c?</p> <p>A. 1 centimeters B. 3 centimeter C. 5 centimeters D. 10 centimeters</p>	<p>2. A rectangle's length is three more than two times its width. If the perimeter of a rectangle is 66 feet, what is the measurement of the length?</p> <p>A. 10 inches B. 21 inches C. 23 inches D. 45 inches</p>
<p>3. Which expression is NOT equivalent to $8p + 6?$</p> <p>A. $2(4p + 3)$ B. $2(4p - 1) + 10$ C. $-12p + 30 + 20p - 24$ D. $2p + 4 + 5p + 2 + p$</p>	<p>4. Which expression is equivalent to $9m - 36?$</p> <p>A. $9(m - 36)$ B. $8m - 12 + m + 48$ C. $9(m + 4)$ D. $-12m + 4 + 21m - 40$</p>
<p>5. The isosceles triangle below has a perimeter of $6x + 7$. If the base is 5, what is the length of each of the unknown sides?</p>  <p>A. $3x + 1$ B. $6x + 2$ C. $3x + 2$ D. $x + 2$</p>	<p>6. The triangle shown has a perimeter of $6x + 1$.</p>  <p>What is the length of each side of the triangle?</p> <p>A. $18x + 3$ B. $2x + \frac{1}{3}$ C. $2x + 1$ D. $3x + \frac{1}{3}$</p>

<p>7. Which expression is NOT equivalent to $5(2a - 6) - 16a?$</p> <p>A. $6a - 30$ B. $10a - 16a - 30$ C. $-30 - 6a$ D. $-6a - 30$</p>	<p>8. Which expression is NOT equivalent to $\frac{1}{2}(8p - 14) - 10p?$</p> <p>A. $4p - 7 - 10p$ B. $-7 + (-6p)$ C. $4p - 7 - 5p$ D. $-6p - 7$</p>								
<p>9. What is the coefficient of m when the expression $\frac{1}{2}(8m - 4) - 3m$ is simplified?</p> <p>A. -2 B. -1 C. 1 D. 2</p>	<p>10. What is the coefficient of k when the expression $-2(4k - 9) - 11k + 8$ is simplified?</p> <p>A. 3 B. -3 C. -7 D. -19</p>								
<p>11. Paula is saving for a spring break trip. So far, she has saved \$90. If she plans to save \$15 each week ($w$) from her part-time job, which expression shows how long must she save for until her savings are quadrupled?</p> <p>A. $15w + 90 = 360$ B. $4(15w + 90) = 360$ C. $15w + 90w = 360$ D. $4(15w) + 90 = 360$</p>	<p>12. Several students conducted a survey of the type of snacks that their peers wanted for the field trip.</p> <table border="1" data-bbox="820 1575 1015 1921"> <thead> <tr> <th colspan="2">Survey Results</th> </tr> </thead> <tbody> <tr> <td>Jaine reported that 4 out of 15 students wanted a salty snack.</td> <td></td> </tr> <tr> <td>Laura reported that $\frac{1}{3}$ of the students wanted a sweet snack.</td> <td></td> </tr> <tr> <td>Piper reported that 2 of the students wanted pizza.</td> <td></td> </tr> </tbody> </table> <p>Based on the three surveys, which snack was the most desired?</p> <p>A. A salty snack B. A sweet snack C. Pizza D. Salty and sweet snacks are tied.</p>	Survey Results		Jaine reported that 4 out of 15 students wanted a salty snack.		Laura reported that $\frac{1}{3}$ of the students wanted a sweet snack.		Piper reported that 2 of the students wanted pizza.	
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<p>13. Margie, Eric, and Connor helped their band stuff envelopes for a fundraiser. Margie has stuffed 96 out of 144 envelopes. Eric has stuffed 62% of his envelopes. Connor has stuffed $\frac{2}{3}$ of his envelopes. If each student started with the same amount, who has the most envelopes left to stuff?</p> <p>A. Margie B. Eric C. Connor</p>	<p>14. What is the solution set for the inequality, $4(p - 3) - 12p \geq 36$</p> <p>A. $p \leq 6$ B. $p \geq 6$ C. $p \leq -6$ D. $p \geq -6$</p>								

<p>1. Cameron's friend John is going to Italy. She wants John to bring her back a souvenir item but Italy uses the Euro as its own unit of currency.</p> <p>Conversion 1 US Dollar = about .77 European Euro</p> <p>If Cameron gives his friend \$50, about how many European Euros can John spend on the souvenir?</p> <p>A. About \$39 B. About \$49 C. About \$50 D. About \$65</p>	<p>2. The ladders shown below are standing against the wall at the same angle. How high up the wall does the longer ladder go? (All measurements are in feet.)</p>  <p>A. 25 feet B. 12.5 feet C. 14 feet D. 11.25 feet</p>
<p>3. Karla, an editor for "The Legacy" newspaper, edits $\frac{1}{5}$ of a page in 3 minutes. How long would it take Karla to edit 3 pages?</p> <p>A. 9 minutes B. 15 minutes C. 45 minutes D. 60 minutes</p>	<p>4. A 3-pound package of ground beef is \$7.80. A $\frac{1}{2}$-pound package is \$1.28. What is the difference in the cost per pound between the larger and smaller packages of beef?</p> <p>A. The larger package costs \$6.52 per pound more than the smaller package. B. The larger package costs \$2.60 more per pound than the smaller package. C. The larger package costs \$1.32 more per pound than the smaller package. D. The larger package costs \$0.04 more per pound than the smaller package.</p>
<p>5. Lauren made 15 cups of lemonade by mixing lemon juice and sugar water. The ratio of lemon juice to sugar water is 2 : 3. How many cups of lemon juice are in the lemonade?</p> <p>A. 6 cups B. 9 cups C. 10 cups D. 22.5 cups</p>	<p>6. Penelope is driving to college. She looks at a map to find out how far she has to drive. On the map, Penelope measures the distance to be 7.5 inches. If the map scale is 1.5 in. = 40 mi, how many miles does Penelope need to drive?</p> <p>A. 200 miles B. 210 miles C. 300 miles D. $\frac{9}{32}$ mile</p>


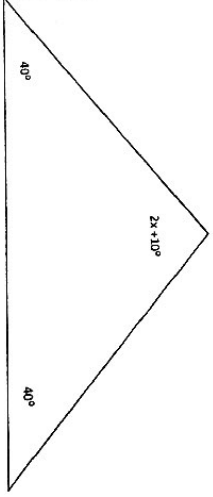
<p>7. The table below shows the amount of money that Bonnie spent during her last trip to Target.</p> <table border="1" data-bbox="1364 1155 1494 1470"> <thead> <tr> <th>Target Purchases</th> <th></th> </tr> </thead> <tbody> <tr> <td>Clothing</td> <td>\$56</td> </tr> <tr> <td>Groceries</td> <td>\$82</td> </tr> <tr> <td>School Supplies</td> <td>\$16</td> </tr> </tbody> </table> <p>To the nearest percent, what percent of the total did she spend on groceries?</p> <p>A. 10% B. 36% C. 53% D. 88%</p>	Target Purchases		Clothing	\$56	Groceries	\$82	School Supplies	\$16	<p>8. On a map, the length of the road from town A to B is 12 inches. On this map, $\frac{1}{4}$ inch represents 8 miles. What is the actual distance from town A to B in miles?</p> <p>A. 128 miles B. 96 miles C. 72 miles D. 1125 miles</p>
Target Purchases									
Clothing	\$56								
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<p>9. Jennifer's new bike costs \$96. Her parents paid 40% of the cost and Jennifer paid the rest. How much did Jennifer pay?</p> <p>A. \$38.40 B. \$57.60 C. \$130.00 D. \$134.40</p>	<p>10. Leann purchased a new computer for her birthday. She had to pay 7.5% sales tax on the computer. If she paid \$63.75 in sales tax, how much did the computer cost?</p> <p>A. \$4.78 B. 68.53 C. \$850 D. \$900</p>								
<p>11. Miller earns \$70,000 per year and puts 7% of his earnings into a savings account. What is the total amount in Miller's savings account after 1 year if the interest rate is 3%?</p> <p>A. \$147 B. \$2,100 C. \$5,047 D. \$72,100</p>	<p>12. A writer earns 8% of total sales dollars as a commission. If 2,000 copies of his book are sold at \$14.95 each, how much commission does he earn?</p> <p>A. \$120 B. \$119.60 C. \$160 D. \$2,392</p>								
<p>13. Yosef purchased a new sweater. The total price of the sweater, including the 8% sales tax, was \$16.74. What was the retail cost of the sweater (before tax)?</p> <p>A. \$15.40 B. \$15.50 C. \$18.08 D. \$16.66</p>	<p>14. The sweatshirt you purchased was on sale for \$29.25, having been marked 35% off. What was the original price?</p> <p>A. \$45 B. \$39.49 C. \$35.46 D. \$19.01</p>								

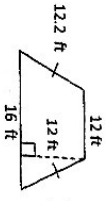
7th Grade Practice Grid-In Questions from WCPSS Teachers

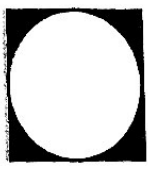
- Write only one digit or symbol in each box. Spaces are permitted before or after your answer, but not within the answer. Darken the corresponding circle below each box. The computer scores based on the darkened circles.
- For a negative number, write a negative sign in the top of the leftmost column. Darken the top circle below.
- Do not use symbols such as commas or dollar signs. Use only symbols that are provided in the circles.
- If an answer is a mixed number, it must be changed and entered as an improper fraction or a decimal. If your answer is the mixed number four and one-half, it can be bubbled as $9/2$ as an improper fraction or 4.5 as a decimal.

0	1	2	3	4	5	6	7	8	9	+	-	.	/	%	10
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Question	Answer
A bicycle that costs \$320 is on sale this week for 20% off the regular price. How much can be saved by purchasing the bicycle this week?	
The scale on a blueprint of a house is 1 inch = 5 feet. On the blueprint, the length of the house is 12.5 inches. What is the length, in feet, of the actual house?	
At the school supply store you can buy 3 pencils for \$1.05. How much would it cost if you wanted to buy 7 pencils?	
Josie ran $3\frac{7}{8}$ miles on Saturday. Kelly ran $1\frac{2}{3}$ miles on Saturday. How much further did Josie run than Kelly?	
Susie deposits \$12,000 into a savings account that earns an interest rate of 8% each year. If she does not deposit or withdraw any money for 4 years, how much interest will she earn? Use the formula $I = prt$ to solve for the interest.	
The low temperature for 5 consecutive days in Anchorage, Alaska was as follows: -20° , -12° , -8° , -13° , and -12° . What was the average low temperature for these 5 days?	
Two angles are complementary. If the measure of one angle is 36° , what is the measure of the second angle?	
The distance from the airport to your vacation villa is 12.4 cm on a city map, and 1 cm represents 4 km. Find the actual distance in kilometers.	
Caleb is making Crab Stuffed Potatoes. He found a recipe that will make 4 servings: 4 large baked potatoes, $\frac{1}{2}$ c evaporated milk, $\frac{1}{3}$ c butter, 1 Tablespoon grated onion, 1 c sharp grated cheese and 1 c crabmeat. How much butter does he need to make 6 servings?	
$(24 \div 3)^2 \div -2^3$	
A factory makes sheets of metal that are $\frac{2}{5}$ of an inch thick. If a worker at the factory makes a stack of 6 of the sheets, how many inches thick will the stack be?	

$-5h - 12 + 2h + 7 = 4$	
Adam bought a bag of chips from the store. The weight on the bag of chips was 5.2 oz. Adam wanted to know if he was getting his money's worth so he weighed the chips. He was surprised that it only weighed 5.9 ounces. What is the percent error for the weight of the bag of chips? Round to the nearest tenth of a percent, if necessary.	
The ratio of pigs to donkeys at the state fair is 2:3. The total number of animals is 65. How many of those animals are pigs?	
Find the circumference of a circle with a diameter of 5 ft?	
Find the area of a hula hoop that has a radius of 2 ft.	
Solve the following expression: $\frac{1}{2}(-6 + 10) + [-9 + (-10)]$	
48 is 20% of what number?	
If $\frac{1}{5}$ of a can of paint will cover $\frac{1}{4}$ of a room, how much paint will be needed to cover the entire room?	
A scale of 3.5 in : 6 ft was used to create this rectangle:	
	
Find the area of the rectangle in ft ² .	
Find the value of x.	
	
A family of 4 is taking a trip to Disney World. Each person will pay a total of \$122. The cost covers the \$74 admission fee and n tickets for rides. Each ticket costs \$4. How many rides can each person ride?	
Find the unit rate if 12 pounds of potatoes cost \$10.68.	

Kelly's car gets $26\frac{1}{4}$ miles per $\frac{5}{8}$ gallon of gas. Find the unit rate.															
Rita's baby brother weighed $7\frac{1}{2}$ pounds when born. Since then, her brother has gained $3\frac{1}{4}$ pounds. How much does Rita's baby brother weigh now? Express the weight as a decimal.															
What is the value of a in $(4.33a + (-4.23)) + (-1.33a) = 0$															
If the quadrilateral below is dilated by a scale factor of 3, what will be the new perimeter?															
															
A Ferris Wheel has a radius of 16 feet. How far will you travel if you take a ride that goes around 5 times? (Round answer to the nearest hundredth)															
Frances bakes 3 cakes for a party. Each cake calls for an equal amount of flour, and she uses $7\frac{1}{2}$ cups of flour altogether. How much flour is there in each cake?															
If the price of a sweater is \$24.99 without tax and \$26.99 with tax, what is the tax rate as a percent?															
Tina is comparing gas prices in six states. What is the mean price of gasoline?															
<table border="1" data-bbox="422 94 706 367"> <tr> <td>Average Cost of Gas per Gallon by State</td> <td></td> </tr> <tr> <td>Maine</td> <td>3.84</td> </tr> <tr> <td>Maryland</td> <td>3.78</td> </tr> <tr> <td>Michigan</td> <td>3.90</td> </tr> <tr> <td>Minnesota</td> <td>3.76</td> </tr> <tr> <td>Missouri</td> <td>3.63</td> </tr> <tr> <td>Montana</td> <td>3.21</td> </tr> </table>	Average Cost of Gas per Gallon by State		Maine	3.84	Maryland	3.78	Michigan	3.90	Minnesota	3.76	Missouri	3.63	Montana	3.21	
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Find the area of the shaded region. The square has a side length of 5 meters.	
	
Mike's football team runs for 10 yards on the first play of the game. The second play, the quarterback gets sacked for a loss of 6 yards. On the third play, the quarterback completes a pass for 5 yards. On the fourth play, the quarterback is sacked again for a loss of 17 yards. How far has the football team moved?	
If $x = 4$ and $y = 3$, evaluate $xy - 2x$	
The scale on the map is 1 inch for every 2.5 miles. If the distance on the map between Cary and Chapel Hill is 9 inches, how many miles apart are the two cities?	
$3 + 4^2 \div 2 - 5$	
Solve $-3x + 2 = -7$	
A round clock has a radius of 5 cm. What is the approximate area of the clock? Use 3.14 for π .	
A football field has a total length of 120 yards but only 100 yards from goal-line to goal-line. It also has a width of 50 yards. What is the total area of the football field from goal-line to goal-line?	
Susan and her brother Tommy want to split a triangle shaped cookie. The cookie has a base of 6 inches and a height of 4 inches. Calculate the area of the cookie that each child will receive.	