

Extra Credit * Due Thurs. Jan 3rd * Show all work for full credit

Name _____ Class _____ Date _____

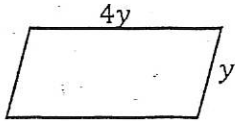
RATIOS AND PROPORTIONAL RELATIONSHIPS

Skill Practice and Problem Solving

<p>1. At 3:30 p.m., you have 15 megabytes of a movie. At 3:45 p.m., you have 75 megabytes. What is the download rate in megabytes per minute?</p>	<p>2. Mya makes 83% of her shots, Justin makes $\frac{17}{20}$ of his shots and Shala makes 0.8 of her shots. Who made the most shots?</p>
<p>3. You estimate that a kitten weighs 15 pounds. The actual weight of the kitten is 8 pounds. Find the percent error.</p>	<p>4. Nora can do 70 push-ups in 2 minutes. Luke can do 105 push-ups in 3 minutes. Do these rates form a proportion? Explain.</p>
<p>5. Of 220 seventh-grade students, 25% earn the Community Service Award. How many students earn the award?</p>	<p>6. A store pays \$35 for a fish tank. The markup is 20%. What is the selling price?</p>
<p>7. Five concert tickets cost \$181.25. What is the cost of 8 concert tickets?</p>	<p>8. You borrow \$500 to buy a computer. The simple interest rate is 15%. You pay off the loan after 4 years. How much do you pay for the loan?</p>

EXPRESSIONS AND EQUATIONS

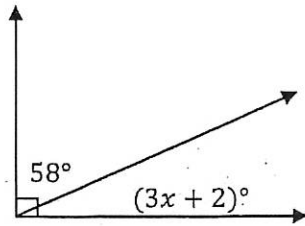
Skill Practice and Problem Solving

<p>1. Find the sum.</p> $\frac{1}{4}(12 + x) + \frac{1}{2}(x - 6)$	<p>2. You withdrew \$36.25 from your checking account. Now your balance is -\$14.75. Write and solve an equation to find the amount of money in your account before you withdrew the money?</p>
<p>3. David's cell phone company charges \$0.45 for each text message plus a monthly fee of \$50.00. He owes \$91.40. Write and solve an equation to find the number of text messages did David has?</p>	<p>4. A theater charges \$5.25 per ticket. The theater has already sold 40 tickets. Write and solve an inequality that represents how many more tickets the theater needs to sell to earn at least \$400.</p>
<p>5. The perimeter of the parallelogram is 25 feet. Find y.</p> 	<p>6. Factor the expression using the GCF.</p> $75m + 85$
<p>7. You have \$7.60 to buy cantaloupes for a fruit salad recipe. Cantaloupes cost \$1.90 each. Write and solve an inequality that represents the number of avocados <u>cantaloupes</u> you can buy.</p>	<p>8. A pair of football cleats cost \$42.00. Samantha make \$1.75 every time she washes the dishes. Write and solve an equation do find how many times Samantha will have to wash the dishes to buy the football cleats?</p>

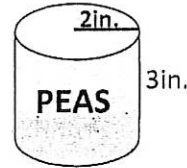
GEOMETRY

Skill Practice and Problem Solving

1. Tell whether the angles are adjacent or vertical. Then find the value of x .

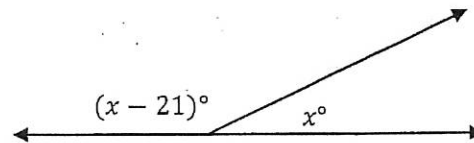


2. How much paper is used for the label on the can of peas? Round your answer to the nearest tenth of a square inch.

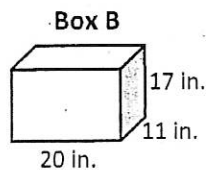
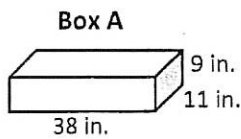


3. A snake at the zoo is 4 feet long. A scale model of the snake is 2 inches long. What is the scale factor?

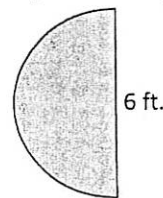
4. Tell whether the angles are complementary or supplementary. Then find the value of x .



5. Each storage box is shaped like a rectangular prism. Which has more storage space? Explain.



6. Find the perimeter of the semicircular region. Round your answer to the nearest hundredth?



7. The diameter of a circular plate is 12 inches. What is the area of the plate? Round your answer to the nearest tenth of a square inch.

8. Eleanor paints this figure on her wall. Find the area of the figure.

