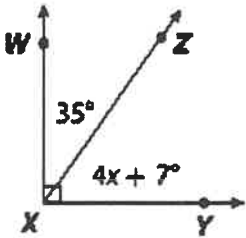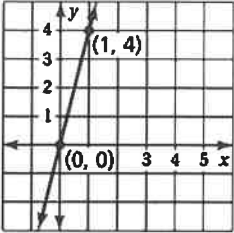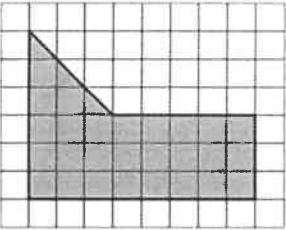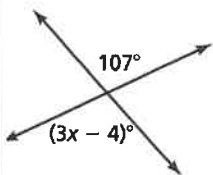| 7RP | After a 125% markup and a 10% discount, the price of a watch is $30.78 before tax.  What was the wholesale price? |
|------|------|
| 7NS | A female monkey is $3\frac{3}{7}$ feet tall.  A male monkey is about $3\frac{2}{5}$ feet tall.  Which of the two monkeys is taller? |
| 7EE | Melinda is running in gym class.  She has 45 minutes and needs to run 6 miles.  Write and solve an inequality to find the amount of time she can spend running each mile. |
| 7G | If you slice a rectangular pyramid parallel to its base what will be the shape of the cross-section? |
| 7SP | Ten slips of paper numbered 1 through 10 are placed in a bag.  You draw a slip at random and draw another without replacing the first.  Find the probability that both numbers are odd. |

| | |
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| **7RP** | Shayla mows $\frac{1}{6}$ acre in $\frac{1}{4}$ hour. How many acres does Shayla mow per hour? |
| **7NS** | A football team loses 4 yards on one play and 7 yards on another play. Write a sum of negative integers to represent this situation. Find the sum and explain how it is related to the problem. |
| **7EE** | Every month, $25 is withdrawn from Calvin's savings account to pay for his gym membership. He has enough savings to withdraw no more than $225. For how many months can Calvin pay for his gym membership? |
| **7G** | The measure of ∠A is 4° greater than the measure of ∠B. The two angles are complementary. Find the measure of each angle. |
| **7SP** | Members of a polling organization survey 600 of the 6,342 registered voters in a town by randomly choosing names from a list of all registered voters. Is their sample likely to be representative? |

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| **7RP** | Geo usually drinks 36 ounces of water per day. He read that he should drink 64 ounces of water per day. If he starts drinking 64 ounces, what is the percent increase? Round to the nearest percent. |
| **7NS** | Tiffany used her debit card to buy lunch for $9.72 on Wednesday. On Thursday, she deposited $9.72 back into her account. What is the overall increase or decrease in her bank account? |
| **7EE** | Nina rented a bicycle while she was on vacation. She paid a flat rental fee of $75.00, plus $9.50 each day. The total cost was $456. Write an equation you can use to find the number of days she rented the bicycle. |
| **7G** | Find the value of x.<br><br>$35°$, $4x + 7°$ |
| **7SP** | A three-character code uses the letters C and P. Either of the letters may be repeated. Find the probability of the code PCP. |

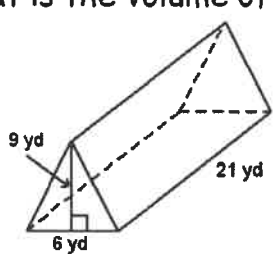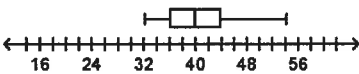| | |
|---|---|
| **7RP** | Find the slope of the line.<br> |
| **7NS** | Write $\frac{7}{8}$ as a decimal. |
| **7EE** | A bus ride for a senior citizen cost \$1.25. A monthly pass costs \$35. Write an inequality that represents the number of times a senior citizen must ride the bus for the monthly pass to be a better deal. |
| **7G** | Find the area of the figure.<br> |
| **7SP** | Tara's jewelry box contains two gold bracelets and two silver bracelets. Tara randomly choose two bracelets. What is the probability that both are silver bracelets? |

| | |
|---|---|
| 7RP | A restaurant owner estimates that his restaurant will serve 430 customers the first week it is open. The actual number of customers the first week is 400. Find the percent error. |
| 7NS | Kamala's cell phone company will add –$5.75 to her next bill for each of the 4 months she was overcharged. How much will be added to her next bill? |
| 7EE | A square picture frame has a perimeter of (16x – 20) feet. Write an expression that represents the side length of the picture frame (in feet). |
| 7G | Tell whether the angles are adjacent or vertical.  Then find the value of x.  107° (3x – 4)° |
| 7SP | You want to estimate the number of students in a junior high school who ride the school bus. Which sample is unbiased?<br>   a) 50 eighth graders at random<br>   b) 90  students at random during lunch<br>   c) 4 students in the hallway<br>   d) all students in  chorus |

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| **7RP** | Megan uses $\frac{2}{3}$ cup of almonds to make 4 cups of trail mix. Using this same proportion, how many cups of almonds would Megan need to make 9 cups of trail mix? |
| **7NS** | Divide. $$-1\frac{1}{5} \div -1\frac{5}{6}$$ |
| **7EE** | Keith paid a total of $48 for 4 movie tickets. He used a coupon for $4 off the entire order. The equation below can be used to determine the regular price of 1 movie ticket, $t$.<br>$$4t - 4 = 48$$<br>What is the regular price of 1 movie ticket? |
| **7G** | The circumference of the circular table on Beverly's porch is $72\pi$ inches. What is the radius of the table? |
| **7SP** | Ronda recorded the colors of the last 250 cars driving by her house in the table below. Using the data, what is the probability that the next car to drive by will be red or blue? |

| Color | Number of Cars |
|---|---|
| blue | 70 |
| green | 30 |
| red | 50 |
| white | 80 |
| yellow | 20 |

| 7RP | Alison knits $\frac{1}{10}$ of a scarf in $\frac{4}{5}$ of an hour. What fraction of a scarf can Alison knit in 1 hour? |
|------|------|
| 7NS | The low point of the Tonga Trench, in the Pacific Ocean, is $-10{,}630$ meters.  The low point of the Mariana Trench, also in the Pacific Ocean, is 890 meters lower. What is the depth of the Mariana Trench? |
| 7EE | Two years of local Internet service costs \$685, including the installation fee of \$85. What is the monthly fee? |
| 7G | Lei is painting the outside of a jewelry box that is in the shape of a rectangular prism. Its length is 18cm, its width is 6cm, and its height is 3cm. What is the surface area of the jewlery box in square centimeters? |
| 7SP | Delsym Middle School has 1,800 students. A random sample of 80 shows that 24 have cell phones. Predict the number of students in the school who have cell phones. |

| | |
|---|---|
| 7RP | Matt earned $28,500 last year. He paid $8,265 for rent. What percent of his earnings did Matt pay for rent? |
| 7NS | The Williams budget $\frac{1}{4}$ for rent and $\frac{1}{3}$ for food. How much of their budget is left? |
| 7EE | In order for a class trip to be scheduled, at least 30 students must sign up. So far, 23 students have signed up. Write and solve an inequality to find the least number of students that must sign up in order for the class trip to be scheduled. |
| 7G | For a school project, Lizzy is making a model of the Empire State Building. She is using a scale of 1 cm:8 ft. The Empire State Building is 1,252 feet tall. How tall is her model? |
| 7SP | The ShowMe Movie Theater is showing 12 movies. Each movie is shown at five different times during the day. How many choices of movies and showtimes does Bart have? |

| 7RP | The quantities $x$ and $y$ are proportional. What is the missing value in the table? |
|---|---|

| $x$ | $\frac{2}{3}$ | $\frac{4}{3}$ | $\frac{8}{3}$ | 5 |
|---|---|---|---|---|
| $y$ | 6 | 12 | 24 | |

| 7NS | Which of the following expressions represents the distance between $-13$ and $-4$ on a number line?<br><br>a) $|-13-(-4)|$     b) $|-13-4|$<br>c) $|-13+(-4)|$     d) $|13+4|$ |
|---|---|

| 7EE | Simplify<br><br>$$6x\left(x^2 - 2x + \frac{1}{2}\right)$$ |
|---|---|

| 7G | A cereal box is 9 inches by 2.5 inches by 10 inches. What is the volume of the box? |
|---|---|

| 7SP | A bargain bin contains hip-hop and jazz CDs. There are 80 CDs in the bin. Choosing a jazz CD and not choosing a jazz CD have the same number of favorable outcomes. How many jazz CDs are in the bin? |
|---|---|

| 7RP | Denise bought a t-shirt at the sale price of $25. The original cost of the sweater was $40. What percent represents the discount that Denise received when buying the t-shirt? |
|---|---|
| 7NS | Julian currently has a balance of –$10.48 in his checking account. His bank requires him to maintain a minimum balance of $20. How much does Julian need to deposit into his checking account to reach the minimum balance? |
| 7EE | Solve for x .<br><br>$$0.4x + 28.5 = 281$$ |
| 7G | What is the volume of the right triangular prism below?<br><br><br>9 yd   21 yd   6 yd |
| 7SP | The box plots show the amount of time, in minutes, it takes for Lesley and Adam to travel to work from their homes each morning over a period of time. What is the median of each data set?<br><br>Lesley<br><br>16  24  32  40  48  56<br><br>Adam<br><br>16  24  32  40  48  56 |