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| 1. What is the volume of the sphere? |  |
| 1. When 8 is added to the number that is produced by doubling the number x, the result is equal to 8 times the number that is 5 less than x. What is the value of x? |  |
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| 1. Nathan is writing a short story that needs to be 750 words in length. He has already written 687 words. How many more words *w* does Nathan need to write? Show work. |  |
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| 1. *m*3 = 5*x* and *m* 6 is 3*x* + 8. Find the value of *x* and the measure of 4 and 5.   http://img.sparknotes.com/figures/C/cdafbce3d7fbcda5507c818a9e198ec0/transversal.gif |  |
| 1. Use the Pythagorean Theorem to find the base of the triangle to the nearest tenth. Then use the height to find the area of the triangle to the nearest tenth. | 1. Which value of *m* is the solution to   a. *m=2.5*  *b. m=6*  *c. m=10*  *d. m=24* |
| 1. Which algebraic expression is equivalent to 6k+17?   a. k+8+5k+7  b. 4k+19-2-2k  c. 11k-2k+9-3k+8  d. 5+6k-k+13+2k |  |
| 1. For which equation is x=3 *not* the solution?   a. 8x=24  b.  c. x+11=14  d. 2x-3=3 |  |