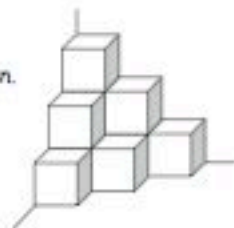




## Warm-Up 2



- cubes Identical cubes are stacked in the corner of a room, as shown. How many of the cubes are not visible?
- pints Kate made pink paint by mixing 1 tsp of red paint with 4 tsp of white paint. Seeing that this was the perfect pink tint, she decided to make a bigger batch of the pink paint. She poured her last 2 pints of red paint into an empty bucket. How many pints of white paint must she pour into the bucket to get the perfect pink tint?
- What is the value of  $3x + 2y$  if  $x = 7$  and  $y = 4$ ?
- The denominator of a fraction is 20 more than the numerator. The fraction is equivalent to  $\frac{3}{4}$ . What is the sum of the numerator and denominator of the original fraction?
- minutes Mary walked 4 laps around the park track. It took Mary 4 minutes to walk the first lap. The second lap took 25% longer than the first lap. The third lap took 20% longer than the second lap. The final lap took 50% longer than the third. What was Mary's total walking time for the 4 laps?
- sq in On a particular cube, one face is white, two faces are green, and the rest of the faces are red. If the total area of the red faces is 21 square inches, what is the area of the white face?
- Gary performed the following three operations:  $15 + x$ ,  $21 + x$  and  $6 + x$ . If he never got a remainder and  $x$  is an integer greater than 1, what is the value of  $x$ ?
- A set of five non-negative integers has a mean of 5, a median of 6 and a mode of 7. What is the smallest possible member of the set?
- % Suppose 20% of the eighth-grade students participate in Math Olympics and 95% of these students get the mathematics teacher of their choice next year. Only 50% of the eighth-grade students who do not participate in Math Olympics get the mathematics teacher of their choice next year. What percent of eighth-grade students get the mathematics teacher of their choice next year?
- integers Sandy typed a positive six-digit integer, but the two 9s she typed didn't show. If 2010 appeared, how many different positive six-digit integers could she have typed? One such integer to include is 920910.



