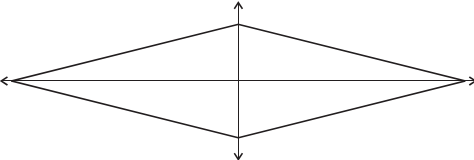


Warm-Up 10

- _____ What is the value of k in the equation $(21 \times 2^4) \times 5! = k!$?
- _____ cu in A rectangular block has faces with areas of 48 in^2 , 72 in^2 and 96 in^2 . What is the volume of the block?
- _____ An $8.5''$ by $11''$ piece of paper is cut entirely into $0.5''$ by $11''$ strips. What is the ratio of the total perimeter of all the strips of paper to the perimeter of the original paper? Express your answer as a common fraction.
- \$ _____ The cost at Modern Attire for a shirt and a tie is \$60. The cost for a tie and a pair of pants is \$66. The cost for a pair of pants and a sweatshirt is \$72. The cost for a sweatshirt and a jacket is \$100. The cost for a shirt and a jacket is \$82. What is the cost of one sweatshirt?
- _____ pounds A math teacher explains that he weighs 100 pounds more than half his weight. How much does he weigh?

- _____ deer For years Carl has kept a record of the number of deer he has spotted in his backyard. If the percent decrease is the same from 1998 to 2008 as it has been for the previous two 10-year spans, as shown, how many deer can he anticipate seeing in 2008?

Year	# of Deer
1978	1000
1988	900
1998	810
2008	?

- _____ sq units  What is the area enclosed on the coordinate plane by the graph of the equation $|x| + |4y| = 20$?

- _____ What is the 15th term in the arithmetic sequence 7, 10, 13, ...?
- _____ Use each of the digits 3, 4, 6, 8 and 9 exactly once to create the greatest possible multiple of 6. What is that multiple of 6?
- _____ games A tournament begins with 61 people. When two people play a game, the loser is eliminated from the tournament. Eventually, only one person remains as the tournament winner. How many games have been played when the tournament winner is determined?

