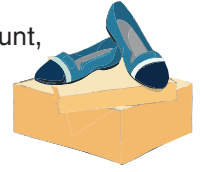




Warm-Up 3



51. \$ _____ A new pair of shoes is on sale for \$45. If this cost represents a 40% discount, what was the original cost of the shoes?
52. _____ The sum of two numbers is 7 and their product is 12. What is twice the sum of their reciprocals? Express your answer as a common fraction.
53. _____ What is the largest prime factor of $8 \times 7 \times 6 \times 5 \times 4 \times 3 - 6 \times 5 \times 4 \times 3 \times 2 \times 1$?
54. \$ _____ The price of a pizza is directly proportional to its area. If a 12-inch pizza costs \$12.00, how much does a 14-inch pizza cost? Express your answer to the nearest dollar.
55. _____ ways A town has some strange streets that are one-way only between the hours of 7:00 a.m. and 8:00 a.m. They run either south or east during that hour. If Joe wishes to go from A to B at 7:20 a.m., how many different ways can he travel?
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56. _____ If $\frac{3}{x-1} = \frac{2}{x+7}$, what is the value of x ?
57. _____ Given that a , b and c are positive integers, and $abc = 210$, what is the least possible sum for $a + b + c$?
58. _____ students The students from Regent Middle School sat in 20 rows in such a way that each row after the first had 3 more students sitting in it than the previous row. If 16 students sat in the first row, how many students sat in the 19th row?
59. _____ units² What is the area of the polygon whose vertices are $(0, 0)$, $(3, 4)$, $(0, 8)$, $(5, 8)$ and $(5, 0)$, connected in that order?
60. _____ Andrew and Lindsey are seated at a round table with four other people. If everyone is randomly seated, what is the probability that Andrew and Lindsey are seated next to each other? Express your answer as a common fraction.