





# Warm-Up 4

61. \_\_\_\_\_ What is the value of  $1 - 2 \div 3 \times 4 + 5$ ? Express your answer as a common fraction.
62. \_\_\_\_\_ ways In how many ways can the letters A, B, C and D be arranged so that no letter is adjacent to any letter that comes immediately before it or immediately after it alphabetically?
63. \_\_\_\_\_ degrees In quadrilateral ABCD, the measure of angle A is half the sum of the measures of the other angles. What is the measure of angle A? Express your answer to the nearest integer.
64. \_\_\_\_\_ years Right now, Christina is twice as old as Mark. In five years, she will be 50% older than him. How many years old is Christina now?
- 
65. \_\_\_\_\_ units<sup>2</sup> What is the area of triangle XYZ with vertices X(0, 4), Y(0, 0) and Z(3, 0)?
66. \_\_\_\_\_ What is the sum of the expression  $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16}$ ? Express your answer as a common fraction.
67. \_\_\_\_\_ Ben randomly draws 2 cards, without replacement, from a standard 52-card deck of playing cards. What is the probability that Ben draws 2 cards of the same rank (two, three, ..., queen, king, ace)? Express your answer as a common fraction.
68. \_\_\_\_\_ pounds  A stone is a British unit of weight equivalent to 14 pounds. After losing  $1\frac{1}{2}$  stone, Jim is now 85% of his original weight. What is Jim's current weight, in pounds?
69. \_\_\_\_\_ Robin is thinking of a number. She asks, "If 29 added to 19 times my number equals 732, what is my number?"
70. \_\_\_\_\_ vertices Euler's formula states that for any convex polyhedron, there are exactly 2 fewer edges than the number of vertices and faces combined. The snub cube is a convex polyhedron with 38 faces and 60 edges. How many vertices does the snub cube have?