Warm-Up 5

71. ________ What is the value of \((2 + 3 + 4) \times \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{4}\right)\)? Express your answer as a common fraction.

72. ________ What is the least possible product of two-digit numbers AB and CD, where A, B, C and D represent distinct nonzero digits?

73. ________ What is the value of \(\frac{2020^2 - 2012^2}{2017^2 - 2015^2}\)?

74. ________ What is the absolute difference between one-half of 5 and one-third of 5? Express your answer as a common fraction.

75. ________ Let \(x\) be a positive number such that the distance between \(x\) and \(-3.8\) on a number line is exactly two times the distance between \(x\) and 1.7. What is the value of \(x\)? Express your answer as a decimal to the nearest tenth.

76. ________ units³ How many cubic units are in the volume of a cube with side length 12 units?

77. ________ A rectangular lawn is mowed every five days. On each of these days, the lawn is mowed in one direction, but the direction varies from one mowing to the next in the following order: East-West (E-W), Northeast-Southwest (NE-SW), North-South (N-S) and Northwest-Southeast (NW-SE). If the lawn is first mowed E-W on Day 1, on Day 201 in which direction is the lawn mowed, E-W, NE-SW, N-S or NW-SE?


79. ________ Sonja can write three book reviews per hour before 10:00 p.m., and she can write one and a half reviews per hour between 10:00 p.m. and midnight. If Sonja starts writing reviews at 7:30 p.m., at what time will she finish writing the tenth book review?

80. ________ cups Logan feeds her collie 3 cups of dog food each day, and she feeds her beagle 12 cups of dog food each week. If Logan buys a bag of dog food containing 75 cups and feeds both dogs for two weeks, how many cups of dog food will be left in the bag?