



Warm-Up 2

41. _____ m² A rectangular swimming pool measures 80 meters by 45 meters. A footpath, 3 meters wide, borders the pool on every side. What is the area of the footpath?



42. _____ If the arithmetic mean of the set {6, 8, 5, 7, x , 4} is 7, what is the value of x ?

43. _____ Eleven bags of wheat flour, each marked 5 lb, actually contained the following weights of flour (in lb):

4.97, 5.05, 5.08, 5.03, 4.98, 5.06, 5.08, 4.98, 5.04, 5.07, 4.92

What is the probability that any of these bags chosen at random contains more than 5 lb of flour? Express your answer as a common fraction.

44. _____ modes How many distinct modes are there in the dataset 1, 2, 2, 3, 2, 5, 4, 3, 3, 1?

45. _____ What is the value of $\frac{1}{4} + \frac{2}{3} + \frac{3}{2} + \frac{4}{1}$? Express your answer as a common fraction.

46. _____ What is the remainder when 9,876,543 is divided by 9?

47. _____ a.m. Bosco's Clown Academy has students take 7 classes a day, with the first class starting at 8:45 a.m. If each class is 20 minutes long, and there is a 5 minute break between each class, at what time does the final class end?

48. _____ What is the sum of the first nine prime numbers? The first prime number to include is 2.

- ★ 49. _____ bakers Alyx needs to bake 35 dozen cookies by tomorrow. Alyx can bake only 6 dozen cookies by herself in that time, but she has relatives willing to help. If each relative can bake 2 dozen cookies by tomorrow, how many bakers, including Alyx, are needed?



- ★ 50. _____ ° The degree measures of a pair of supplementary angles are in a ratio of 1:4. What is the degree measure of the larger angle?