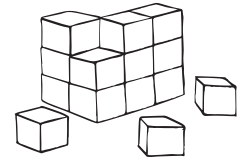




Warm-Up 1

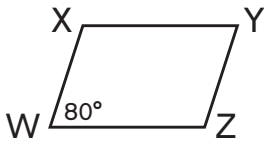
31. _____ What is the result when one hundred twenty-eight thousand is subtracted from one million?

32. _____ $\frac{\text{unit}}{\text{cubes}}$ How many unit cubes are required to create a larger cube with edge length 3 units?



33. _____ What is the remainder when the sum of the smallest and second-smallest prime numbers is divided by the third-smallest prime number?

34. _____ $\frac{\text{degrees}}{\text{degrees}}$ In parallelogram WXYZ, shown here, the measure of angle W is 80 degrees. What is the degree measure of angle X?



35. _____ What is the value of $6 \div 2 \times 3 + 8 \div 4 \times 2$?

36. _____ If Yasuko randomly selects a single-digit positive integer, what is the probability that it is *not* prime? Express your answer as a common fraction.

37. _____ What is the value of $0.001 \times \frac{1}{10} \times 10^5$?

38. _____ What is the value of $3(4x + 5y) - 2(7x - 3y)$ when $x = -2$ and $y = 3$?

39. _____ If $\frac{4}{18} = \frac{a}{27}$, what is the value of a ?

40. _____ $\frac{\text{cups}}{\text{cups}}$ *Daifuku* is a snack made from glutinous rice flour and sweetened red bean paste. A recipe for 24 daifuku requires 3 cups of sugar. How many cups of sugar are needed to make 64 daifuku?





Warm-Up 2

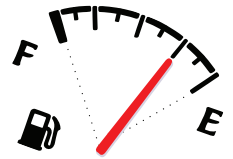
41. _____ : _____ p.m. Louisa leaves her house at 12:17 p.m., walks to the library, which takes 14 minutes, and remains there for 3 hours 27 minutes. If she walks home at the same speed as she walked to the library, at what time will she return home?

42. _____ What is the value of $7 - (3 - 4) + 11$?

43. _____ What is the least positive integer that is divisible by 4, 6 and 10?

44. _____ yards How many yards are in the perimeter of a square that measures 99 inches on each side?

45. _____ gallons When the Schwartzes left home, their gas gauge read $\frac{7}{8}$ full. When they reached their destination, their gauge read $\frac{1}{4}$ full. If their gas tank holds 16 gallons, how many gallons of gas did they use on their trip?



46. _____ What is the eighth term of the sequence that begins with 1, 3, 7, 13, 21, ...?

47. _____ What is the value of x that satisfies the equation $5(x + 2) - 3(x - 8) = 16$?

48. _____ minutes



Andrew mowed one-half of a lawn, and Ben mowed one-third of the same lawn, each at a constant rate. If Andrew, continuing at the same rate, finished mowing the rest of the lawn in 12 minutes, how many minutes would it have taken him to mow the entire lawn by himself?

49. _____ If 125% of n is 30, what is 25% of n ?

50. _____ outfits

Don has four short-sleeved shirts, one each in black, white, red and gray, and two long-sleeved shirts, one each in red and gray. Don has three pairs of pants, one each in gray, black and tan. If Don chooses to wear only one black item or no black items at any one time, how many different outfits consisting of a shirt and a pair of pants can he make?



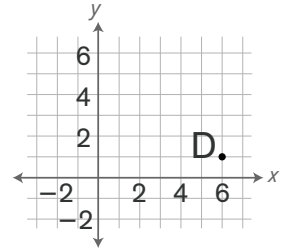


Warm-Up 3

51. _____ times The face of a clock has the numbers 1 through 12 painted on it. How many times is the digit 1 painted?

52. _____ What is the value of $5 + (-6) + 5 - (-6) + 5 - 6 + (-5 + 6)$?

53. _____ What is the sum of the coordinates of point D on the coordinate grid shown?



54. _____ What is the value of $\left(1 - \frac{1}{2}\right)^2 \left(1 - \frac{1}{3}\right)^2$? Express your answer as a common fraction.

55. _____ What is the value of $0.123 + 1.032 + 2.301 + 3.210$? Express your answer as a decimal to the nearest thousandth.

56. _____ primes Let $p(n)$ be the number of primes less than n . What is $p(50)$?

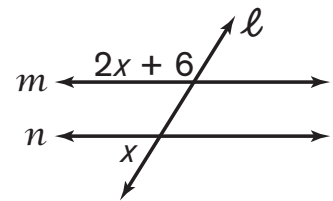
57. _____ cups



Maria wants to make a casserole to serve 12 people. She plans to use a recipe that calls for $1\frac{1}{4}$ cups of flour to serve 5 people. How many cups of flour will Maria need for her casserole?

58. _____ Let x and y represent the LCM and GCF, respectively, of 24 and 40. What is the value of $\frac{x}{y}$?

59. _____ degrees The figure shows parallel lines m and n with transversal ℓ . Based on the degree angle measures shown, what is the value of x ?



60. _____ What is the greatest two-digit prime number that is one greater than a perfect square?