

PLACEMENT TEST FOR ALGEBRA 1

Read First: [Instruction for Placement Test Algebra 1](#)

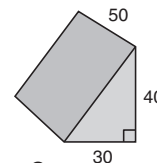
61. Round 7.49362 to the nearest thousandth.
62. President Franklin D. Roosevelt died in office in 1945 at the age of 63. In what year was he born?
63. Eric ran 8 laps in 11 minutes 44 seconds. How many seconds did it take Eric to run 8 laps?
64. A one-quart container of oil costs 89¢. A case of 12 one-quart containers costs \$8.64. How much is saved per container by buying the oil by the case?
65. Ricardo ran the 400-meter race 3 times. His fastest time was 54.3 seconds. His slowest time was 56.1 seconds. If his average time was 55.0 seconds, what was his time for the third race?

66. The perimeter of a square is one yard. What is the area of the square in square inches?

67. The perimeter of the square equals the perimeter of the regular pentagon. Each side of the pentagon is 16 cm long. How long is each side of the square?



68. Find the volume of the triangular prism shown. Dimensions are in millimeters.



69. The sale price of an item on sale for 40% off is \$48. What was the regular price?
70. A bag contains 3 red marbles, 4 white marbles, and 5 blue marbles. If one marble is drawn from the bag, what is the probability that the marble will be blue?

71. $6w = 6^3$ Find w .

72. $4\frac{4}{5} \cdot 1\frac{1}{9} \cdot 1\frac{7}{8}$

73. $3\frac{5}{6} - (\frac{2}{3} - \frac{1}{2})$

74. $(0.15)(0.05)$

75. $\frac{1.2}{4.4} = \frac{3}{a}$ Find a .

76. If $\frac{w}{x} = 3$, what does $\frac{x}{w}$ equal?

77. Write a fraction equal to $\frac{1}{2}$ with a denominator of 6 and a fraction equal to $\frac{1}{3}$ with a denominator of 6. Then add the fractions.

78. Evaluate $x^3 - xy - \frac{x}{y}$ if $x = 2$ and $y = 0.5$

79. Forty percent of what number is 60?

80. Only three-tenths of the print area of the newspaper carried news. The rest of the area was filled with advertisements. What percent of the print area was filled with advertisements?

Answer Key

To determine course placement, see this: [Placement Guide Algebra 1](#)

61. 7.494

62. 1882

63. 704 seconds

64. \$0.17 per container

65. 54.6 seconds

66. 81 square inches

67. 20 cm

68. 30,000 mm^3

69. \$80

70. $\frac{5}{12}$

71. 36

72. 10

73. $3\frac{2}{3}$

74. 0.0075

75. 11

76. $\frac{1}{3}$

77. $\frac{5}{6}$

78. 3

79. 150

80. 70%