

Arithmetic

The Arithmetic section of the placement test has 17 questions and tests you in three areas. Your performance on this section of the placement test determines your placement into MA 060 or MA 061.

Areas of testing:

- Addition, subtraction, multiplication and division of whole numbers and fractions; recognizing fractions and mixed numbers; estimating. 31-44% of the arithmetic test contains problems from this category.
- Addition, subtraction, multiplication and division of decimals; percent problems; recognition of decimal, fraction and percent equivalents; estimation problems. 31-38% of the arithmetic test contains problems from this category.
- Applications and problem solving; rate, percent, measurement, simple geometry and distribution of a quantity into its fractional parts; 25-31% of the arithmetic test contains problems from this category.

The following problems are merely suggested practice problems for the Arithmetic section of the placement test. Some of the problems may or may not be similar to the problems on the actual test. It is recommended that if you have difficulty completing the problems that you review skills developed in a general high school mathematics class.

To be well prepared for the actual adaptive test, it is recommended that you thoroughly review arithmetic, Algebra I, Algebra II, College Algebra and Trigonometry topics. The attached problems are merely suggested for practice and do not necessarily reflect the problems actually on the test.

Arithmetic Practice Test

1. Add $3.37 + 8 + 2.5 + .874 + 2.283$
2. Round 693,856,639 to the nearest thousand.
3. Find 4^3
4. A walnut grower sold 11,580 50-pound sacks of nuts. Of these, 5450 sacks were sold at \$15 per sack and the rest were sold at \$13 per sack. What was the total income from the two sales?
5. A man owed \$2,365 on his car. After making 35 payments of \$67 each, how much did he have left to be paid?
6. $\sqrt{35}$ is between which two whole numbers?
7. Subtract $12\frac{7}{12} - 5\frac{14}{15}$
8. Multiply $1\frac{3}{5} \cdot 3\frac{3}{4}$
9. Divide $\frac{2}{3} \div 1\frac{1}{4}$

To be well prepared for the actual adaptive test, it is recommended that you thoroughly review arithmetic, Algebra I, Algebra II, College Algebra and Trigonometry topics. The attached problems are merely suggested for practice and do not necessarily reflect the problems actually on the test.

10. Reduce $\frac{45}{105}$

11. Lady had 5 puppies that weighed the following weights:

$$2\frac{1}{4} \text{ lbs} \quad 2\frac{1}{2} \text{ lbs} \quad 1\frac{7}{8} \text{ lbs} \quad \text{and} \quad 2\frac{1}{4}$$

What is the estimate of their total weights in pounds?

12. Arrange the fractions from largest to smallest.

$$\frac{2}{5} \quad \frac{1}{4} \quad \frac{3}{10}$$

13. Round 8.9996 to the nearest hundredth.

14. Round 47.444 to the nearest tenth.

15. Write the following fraction as a decimal and a percent.

$$\frac{3}{125}$$

To be well prepared for the actual adaptive test, it is recommended that you thoroughly review arithmetic, Algebra I, Algebra II, College Algebra and Trigonometry topics. The attached problems are merely suggested for practice and do not necessarily reflect the problems actually on the test.

16. $\frac{5}{12}$ of 48 = ?

17. 45% 300 = ?

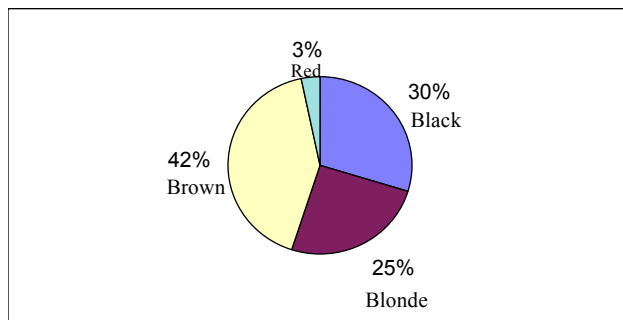
18. What number is 6% of 40?

19. What percent of 20 is 25?

20. The rent on a \$400 a month apartment is increased $12\frac{1}{2}\%$. Find the new rent.

21. 500 grams of a solution contains 75 grams of a drug. What percent of the solution is drug?

22. According to the graph, how many people out of 68,000 people would have brown hair?



To be well prepared for the actual adaptive test, it is recommended that you thoroughly review arithmetic, Algebra I, Algebra II, College Algebra and Trigonometry topics. The attached problems are merely suggested for practice and do not necessarily reflect the problems actually on the test.

Arithmetic Practice Test Answers

- | | | | | | |
|----|------------------|-----|--|-----|---------------|
| 1. | 17.027 | 9. | $\frac{8}{15}$ | 17. | 135 |
| 2. | 693,857,000 | 10. | $\frac{3}{7}$ | 18. | 2.4 |
| 3. | 64 | 11. | 11 pounds | 19. | 125% |
| 4. | \$161,440 | 12. | $\frac{2}{5} \frac{3}{10} \frac{1}{4}$ | 20. | \$450 |
| 5. | \$20 | 13. | 9.00 | 21. | 15% |
| 6. | 5 and 6 | 14. | 47.4 | 22. | 28,560 people |
| 7. | $6\frac{13}{20}$ | 15. | .024 2.4% | | |
| 8. | 6 | 16. | 20 | | |
-

To be well prepared for the actual adaptive test, it is recommended that you thoroughly review arithmetic, Algebra I, Algebra II, College Algebra and Trigonometry topics. The attached problems are merely suggested for practice and do not necessarily reflect the problems actually on the test.