

ADP Mathematics Placement Exam Part I Practice

Instructions

- This is a practice exam, and does not count toward your Mathematics placement results.
- You are allowed to use a calculator and scratch paper.
- You may use whatever resources are available to you during the practice exam, but you are not allowed to get outside help from other individuals, or to use external resources such as a textbook, notes, or the internet during the actual exam.
- Unless instructed otherwise on a particular problem, please round your final answers to two decimal places.
- Note that the actual Mathematics Placement Exam Part I has a 30 minute time limit.
- Additional practice exams will be available in Canvas once you have registered to take the ADP Mathematics Placement Exam.

Practice Exam Questions

1. Which of the following statements is false?
 - (a) $-18 < -14$
 - (b) $3 < 8$
 - (c) $-10 < -16$
 - (d) $-2 > -3$
 - (e) $3 > -7$
2. Which is larger: 0.015 or 0.003?
3. Add: $\frac{3}{7} + \frac{1}{8}$. Give your answer in lowest terms.
4. Calculate $\frac{18}{5} \times \frac{7}{3}$. Give your answer in lowest terms.
5. Calculate $\frac{3}{7} \div \frac{9}{14}$. Give your answer in lowest terms.
6. Evaluate the following expression: $-5(7 - 2) - 29$.
7. Evaluate the following expression: $(-12 \cdot 3 - 17)/(7 - 4)$.
8. Convert 34.89% to a decimal. Provide an exact answer.
9. Convert the decimal to a percent. $0.172 = \underline{\quad}\%$.

10. Round 12.346 to the nearest hundredth.
11. Find the average of 39 and 62.4.
12. According to a company's employee list, it has 172 employees who commute to work by car and 284 who commute using public transportation. What is the ratio of employees who commute by car to the number who commute using public transportation? Give your answer in lowest terms.
13. Find the product of 3.4 and 2.83.
14. Evaluate $(-1)^7 - (3)^4$.
15. Given that $x = 2$ and $y = -7$, evaluate $-5x + 3y^2 - y$.
16. Given that $a = 3$, $b = -4$, and $c = 9$, calculate

$$\frac{3 + \frac{1}{b}}{a - c}.$$

See next page for answers.

Answers

1. (c)
2. 0.015
3. $\frac{31}{56}$
4. $\frac{42}{5}$
5. $\frac{2}{3}$
6. -54
7. -17.67
8. 0.3489
9. 17.2
10. 12.35
11. 50.7
12. $\frac{43}{71}$
13. 9.62
14. -82
15. 144
16. -0.46