

Math Accuplacer Study Guide

Arithmetic Sample Questions

1. $2.75 + .003 + .158 =$

- A. 4.36
- B. 2.911
- C. 0.436
- D. 2.938

2. $7.86 \times 4.6 =$

- A. 36.156
- B. 36.216
- C. 351.56
- D. 361.56

3. $\frac{7}{20} =$

- A. 0.035
- B. 0.858
- C. 0.35
- D. 3.5

4. Which of the following is the least?

- A. 0.105
- B. 0.501
- C. 0.015
- D. 0.15

5. All of the following are ways to write 25 percent of N EXCEPT

- A. $0.25 N$
- B. $\frac{25N}{100}$
- C. $\frac{1}{4} N$
- D. $25 N$

6. Which of the following is closest to 27.8×9.6

- A. 280
- B. 300
- C. 2,800
- D. 3,000

7. A soccer team played 160 games and won 65 percent of them. How many games did they win?

- A. 94
- B. 104
- C. 114
- D. 124

8. Three people who work full time are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full time. If one of the people is budgeted for $\frac{1}{2}$ of his time to the project and a second person for $\frac{1}{3}$ of her time, what part of the third worker's time should be budgeted to this project?

- A. $\frac{1}{3}$
- B. $\frac{3}{5}$
- C. $\frac{1}{6}$
- D. $\frac{1}{8}$

9. 32 is 40% of what number?

- A. 12.8
- B. 128
- C. 80
- D. 800

10. $3\frac{1}{3} - 2\frac{2}{5} =$

- A. $1\frac{1}{2}$
- B. $\frac{1}{15}$
- C. $\frac{14}{15}$
- D. $1\frac{1}{15}$

Elementary Algebra Test Sample Questions

1. If A represents the number of apples purchased at 15 cents each and B represents the number of bananas purchased at 10 cents each, which of the following represents the total value of the purchases?

- A. $A + B$
- B. $25(A + B)$
- C. $10A + 15B$
- D. $15A + 10B$

2. $\sqrt{2} \cdot \sqrt{15} = ?$

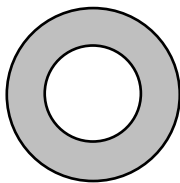
- A. 17
- B. 30
- C. $\sqrt{30}$
- D. $\sqrt{17}$

3. What is the value of the expression $2x^2 + 3xy - 4y^2$ when $x = 2$ and $y = -4$?

- A. -80
- B. 80
- C. -32
- D. 32

4. In the figure below, both circles have the same center, and the radius of the larger circle is R. If the radius of the smaller circle is 3 units less than R, which of the following represents the area of the shaded region

- A. πR^2
- B. $\pi(R - 3)^2$
- C. $\pi R^2 - \pi \cdot 3^2$
- D. $\pi R^2 - \pi(R - 3)^2$



5. $(3x - 2y)^2 =$

- A. $9x^2 - 4y^2$
- B. $9x^2 + 4y^2$
- C. $9x^2 + 4y^2 - 6xy$
- D. $9x^2 + 4y^2 - 12xy$

6. $\frac{x^2 - x - 6}{x^2 - 4} =$

- A. $\frac{x - 3}{2}$
- B. $\frac{x - 3}{x - 2}$
- C. $\frac{x - 3}{x + 2}$
- D. $\frac{3}{2}$

7. $\frac{4 - (-6)}{-5} =$

- A. $\frac{2}{5}$
- B. $-\frac{2}{5}$
- C. 2
- D. -2

8. If $2x - 3(x + 4) = -5$, then $x =$

- A. 7
- B. -7
- C. 17
- D. -17

9. $-3(5 - 6) - 4(2 - 3) =$

- A. -7
- B. 7
- C. -1
- D. 1

10. If $20 - \frac{4}{5}x \geq 16$, then

- A. $x \leq 5$
- B. $x \geq 5$
- C. $x \geq 32\frac{1}{2}$
- D. $x \leq 32\frac{1}{2}$

College Algebra Test Sample Questions

1. If $f(x) = x^4 - x + 2$, then $f(-x) =$

- A. $x^4 - x$
- B. $x^4 + x$
- C. $x^4 - x + 2$
- D. $x^4 + x + 2$
- E. $x^4 + x - 2$

2. A right triangle ABC has a right angle at C. The base of the triangle is BC and the vertical is AC. The SINE of angle "B" is?

- A. $\frac{BC}{AC}$
- B. $\frac{AC}{AB}$
- C. $\frac{AB}{BC}$
- D. $\frac{AB}{AC}$

3. Mary has 12 more apples than peaches. If she divides each fruit in half, she will have 32 pieces of fruit. How many peaches does Mary have?

- A. 2
- B. 3
- C. 12
- D. 8

4. $x^2 + 2ix - 4 = 0$ has as its roots

- A. $\sqrt{5} - 1, -\sqrt{5} - 1$
- B. $\sqrt{5} - i, \sqrt{5} + i$
- C. $\sqrt{3} - i, -\sqrt{3} + i$
- D. $\sqrt{3} - i, \sqrt{3} + i$
- E. $\sqrt{3} - i, -\sqrt{3} - i$

Answers to Sample Questions

Arithmetic Test

1. B
2. A
3. C
4. C
5. D
6. A
7. B
8. C
9. C
10. C

Elementary Algebra Test

1. D
2. C
3. A
4. D
5. D
6. B
7. D
8. B
9. B
10. A

College Algebra Test

1. D
2. B
3. A
4. E

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www.aims.edu/student/assessment/study_guides.htm

www.montgomerycollege.edu/departments/assessctr/accuplacersamplepf.htm#answers

www.testprepreview.com

Or Type "Accuplacer Practice Test" into the search engine for hundreds of free practice tests for you to take!