

# What is ACCUPLACER?

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# What is ACCUPLACER?

- \* ACCUPLACER is a suite of tests that determines your knowledge in math, reading and writing as you prepare to enroll in college-level courses.
- \* ACCUPLACER is used to identify your strengths and weaknesses in each subject area
- \* The results of the assessment, in conjunction with your academic background, goals and interests, are used by academic advisors and counselors to place you in the appropriate college courses that meet your skill level.
- \* Your ACCUPLACER results will determine your summer classes.

# ACCUPLACER Tests

- \* ACCUPLACER assessments are delivered in multiple-choice format. All tests are untimed to allow you to focus and comfortably demonstrate your skills while answering questions.
- \* ACCUPLACER assessments are computer-adaptive. Questions are selected based on your skill level; in other words, your response to one question determines the difficulty level of the following question. You are encouraged to give each question as much thought as you wish before selecting your final answer.

# What is on an ACCUPLACER Test?

## Arithmetic

The Arithmetic test, comprised of 17 questions, measures your ability to perform basic arithmetic operations and to solve problems that involve fundamental arithmetic concepts. There are three types of Arithmetic questions:

- \* **Operations with whole numbers and fractions:** topics included in this category are addition, subtraction, multiplication, division, recognizing equivalent fractions and mixed numbers, and estimating.
- \* **Operations with decimals and percents:** topics include addition, subtraction, multiplication, and division with decimals. Percent problems, recognition of decimals, fraction and percent equivalencies, and problems involving estimation are also given.
- \* **Applications and problem solving:** topics include rate, percent, and measurement problems, simple geometry problems, and distribution of a quantity into its fractional parts.

# Sample Question

## NO CALCULATOR on Arithmetic

\*Tom and Sally ordered pizza. Tom ate  $\frac{1}{3}$  of the pizza and Sally had  $\frac{2}{5}$ . How much pizza is left over?

a)  $\frac{5}{8}$

b)  $\frac{3}{8}$

c)  $\frac{11}{15}$

d)  $\frac{4}{15}$

# Sample Question

\*Tom and Sally ordered pizza. Tom ate  $\frac{1}{3}$  of the pizza and Sally had  $\frac{2}{5}$ . How much pizza is left over?

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d)  $\frac{4}{15}$

The answer is C:  $\frac{1}{3} + \frac{2}{5} = \frac{1*5}{3*5} + \frac{2*3}{5*3} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

# What is on an ACCUPLACER Test?

## Elementary Algebra

The Elementary Algebra test, comprised of 12 questions, measures your ability to perform basic algebraic operations and to solve problems involving elementary algebraic concepts. There are three types of Elementary Algebra questions:

- \* **Operations with integers and rational numbers:** topics include computation with integers and negative rationals, the use of absolute values, and ordering.

# What is on an ACCUPLACER Test?

## Elementary Algebra

- \* **Operations with algebraic expressions:** topics include the evaluation of simple formulas and expressions, adding and subtracting monomials and polynomials, multiplying and dividing monomials and polynomials, the evaluation of positive rational roots and exponents, simplifying algebraic fractions, and factoring.
- \* **Solution of equations, inequalities, word problems:** topics include solving linear equations and inequalities, solving quadratic equations by factoring, solving verbal problems presented in an algebraic context, including geometric reasoning and graphing, and the translation of written phrases into algebraic expressions.



# Sample Question

\* If  $4x = \frac{7}{9}$ , then  $x$  equals?

a)  $\frac{7}{13}$

b)  $\frac{11}{3}$

c)  $\frac{28}{9}$

d)  $\frac{7}{36}$

# Sample Question

\* If  $4x = \frac{7}{9}$ , then  $x$  equals?

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b)  $\frac{11}{3}$

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d)  $\frac{7}{36}$

$$4x = \frac{7}{9}$$

$$\frac{4x}{4} = \frac{7}{9} \div 4$$

$$x = \frac{7}{36}$$

# What is on an ACCUPLACER Test?

## College-Level Math

The College-Level Math test, comprised of 20 questions, measures your ability to solve problems that involve college-level mathematics concepts. There are five types of College-Level Math questions:

- \* **Algebraic operations:** topics include simplifying rational algebraic expressions, factoring, expanding polynomials, and manipulating roots and exponents.
- \* **Solutions of equations and inequalities:** topics include the solution of linear and quadratic equations and inequalities, equation systems and other algebraic equations.
- \* **Coordinate geometry:** topics include plane geometry, the coordinate plane, straight lines, conics, sets of points in the plane, and graphs of algebraic functions.
- \* **Applications and other algebra topics:** topics include complex numbers, series and sequences, determinants, permutations and combinations, fractions and word problems.
- \* **Functions and trigonometry:** topics include polynomials, algebraic, exponential, and logarithmic and trigonometric functions.

# Sample Question

Factor  $4x^2 + 8x - 12$  completely.

- a)  $(4x+1)(x-12)$
- b)  $[2(x-4)]^2$
- c)  $4(x-1)(x+3)$
- d)  $4(x-3)(x+1)$

# Sample Question

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# What is on an ACCUPLACER Test?

## **Sentence Skills**

The Sentence Skills test, comprised of 20 questions, measures your understanding of sentence structure — what makes a sentence complete and clear. Some questions deal with the logic of the sentence, and others with the relationships between two sentences.

# Sample Question:

## Sentence correction

*Select the best version of the highlighted part of the sentence. The first choice is the same as the original sentence. If you think the original sentence is best, choose the first answer.*

Ms. Rose **planning** to teach a course in biology next summer.

a) planning

b) are planning

c) with a plan

d) plans

# Sample Question

Ms. Rose *planning* to teach a course in biology next summer.

a) planning

c) with a plan

b) are planning

d) plans



# Sample Question: Construction shift

*Rewrite the sentence in your head, following the directions given below. Keep in mind that your new sentence should be well written and should have essentially the same meaning as the sentence given you.*

If he had enough strength, Todd would move the boulder.

Rewrite, beginning with

Todd cannot move the boulder...

The next words will be

*a) when lacking*

*c) although there*

*b) because he*

*d) without enough*

# Sample Question: Construction shift

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Rewrite, beginning with

Todd cannot move the boulder...

The next words will be

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# What is on an ACCUPLACER Test?

## **Reading Comprehension**

The Reading Comprehension test, comprised of 20 questions, measures your ability to understand what you read, to identify main ideas and to make inferences. You need to distinguish between direct statements and secondary or supporting ideas.

# Sample Question

*Read the statement or passage and then choose the best answer to the question. Answer the question on the basis of what is stated or implied in the statement or passage.*

Myths are stories, the products of fertile imagination, sometimes simple, often containing profound truths. They are not meant to be taken too literally. Details may sometimes appear childish, but most myths express a culture's most serious beliefs about human beings, eternity, and God.

The main idea of this passage is that myths

- a) are created primarily to entertain young children
- b) are purposely written for the reader who lacks imagination
- c) provide the reader with a means of escape from reality
- d) illustrate the values that are considered important to a society

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# Sample Question

*Two sentences are followed by a question or statement about them. Read each pair of sentences and then choose the best answer to the question or the best completion of the statement.*

The Midwest is experiencing its worst drought in fifteen years.  
Corn and soybean prices are expected to be very high this year.

*What does the second sentence do?*

- a) It restates the idea found in the first.
- b) It states an effect.
- c) It gives an example.
- d) It analyzes the statement made in the first.

# Sample Question

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**The second sentence states an effect of the first sentence.**

# More Practice 😊

\*All of the following are ways to write 20 percent of N  
**EXCEPT**

a)  $0.20N$

b)  $\frac{20}{100} N$

c)  $\frac{1}{5}N$

d)  $20N$



# More Practice 😊

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a)  $0.20N$

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# More Practice 😊

*Which of the following is closest to the square root of 10.5?*

- a) 3
- b) 4
- c) 5
- d) 8

# More Practice 😊

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- b) 4
- c) 5
- d) 8

# More Practice 😊

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)  $\frac{1}{4}$

c)  $\frac{1}{6}$

d)  $\frac{1}{8}$

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