

## SAMPLE QUESTIONS: BASIC MATH SKILLS ASSESSMENT (BMSA)

The Algonquin College Basic Math Skills Assessment (BMSA) is comprised of:

- The Accuplacer Arithmetic placement test.

Please Note: Examinees are not permitted to use handheld calculators to complete any of the Accuplacer placement tests. A pop-up calculator is made available by Accuplacer to aid in the completion of some questions.

### ACCUPLACER ARITHMETIC TEST

This test measures your ability to perform basic arithmetic operations and to solve problems that involve fundamental arithmetic concepts. There are 17 questions on the Arithmetic tests, divided into three types.

1. Operations with whole numbers and fractions: Topics included in this category are addition, subtraction, multiplication, division, recognizing equivalent fractions and mixed numbers, and estimating.
2. 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.
3. Applications and problem solving: Topics include rate, percent, and measurement problems; simple geometry problems; and distribution of a quantity into its fractional parts.

### ARITHMETIC SAMPLE QUESTIONS

*Solve the following problems and select your answer from the choices given.*

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.  $7/20 =$ 
  - 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.  $25N / 100$
  - C.  $\frac{1}{4} N$
  - D.  $25 N$
6. Which of the following is closest to  $27.8 \times 9.6$ ?
- 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 it 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 one-half of his time to the project and a second person for one-third of her time, what part of the third worker's time should be budgeted to this project?
- A. 13
  - B. 35
  - C. 16
  - D. 18
9. 32 is 40 percent of what number?
- A. 12.8
  - B. 128
  - C. 80
  - D. 800
10.  $313 - 225 =$
- A. 112
  - B. 115
  - C. 1415
  - D. 1115

ANSWER KEY

- 1. B
- 2. A
- 3. C
- 4. C
- 5. D
- 6. A

7. B
8. C
9. C
10. C

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