

*SKILLS LIST and SAMPLE ITEMS FOR*  
**PRACTICE TEST FOR MATHEMATICS, GRADE 7 FORM B**  
(Test items developed for skills measured in MCT)

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*Skills*

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| 1.0 Numbers Sense                          | 4.0 Data Analysis, Statistics,<br>Probability  |
| 1.1 Number Meaning, Operations             | 4.1 Collecting, Organizing,<br>Describing Data |
| 2.0 Geometry                               | 4.2 Probability                                |
| 2.1 Properties of Shapes, Lines,<br>Angles | 5.0 Algebra                                    |
| 3.0 Measurement                            | 5.1 Variables, Expressions,<br>Equations       |
| 3.1 Using Standard, Non-Standard<br>Units  | 5.2 Patterns                                   |
| 3.2 Estimation                             |  |
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Number of questions: 50  
Number of pages: 8

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(OVER)

# MCT PRACTICE TEST IN MATHEMATICS - GRADE 7 - FORM B

1. Which shows forty-three billion, five hundred thousand in standard form?
- A. 43,000,500,000
  - B. 43,000,000,050
  - C. 43,500,000
  - D. 4.3005000

2. Which is the decimal value for this expression?

$$\frac{4 \times 10^5}{8 \times 10^7}$$

- A. .005
  - B. .05
  - C. 50
  - D. 200
3. Which of the following verbal phrases is the translation of this algebraic expression:  $(x + 7)^2 + 3$ ?

- A. three more than the square of a number, increased seven
- B. twice the sum of a number and seven, increased by three
- C. three more than the square of the sum of a number and seven
- D. three times the square of the sum of a number and seven

4. Which integer is the least common multiple of 36 and 48?

- A. 288
- B. 144
- C. 12
- D. 2

5. Which of the following sets of integers is listed from least to greatest?

- A. -8, -5, 0, 7
- B. -5, -8, 0, 7
- C. -10, -11, -12, -13
- D. 2, 3, 4, -20

6. Kelly had \$300 in her savings account. If she begins to withdraw \$10.00 each week, which of the following equations could be used to find the amount of money she will have in her account after 16 weeks?

- A.  $x = 300 - 16(10)$
- B.  $x - 300 = 16(10)$
- C.  $300 = 16x - 10(16)$
- D.  $300 = 16(10) - x$

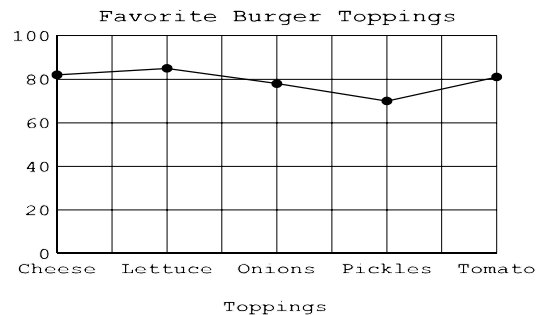
7. Which fractions is not equivalent to  $\frac{9}{12}$ ?

- A.  $\frac{24}{32}$
- B.  $\frac{6}{8}$
- C.  $\frac{16}{24}$
- D.  $\frac{15}{20}$

8. To convert a temperature from Celsius,  $C$ , to Fahrenheit,  $F$ , use  $F = \frac{9}{5}C + 32$ . What is the Fahrenheit temperature if the Celsius temperature is  $20^\circ$ ?

- A.  $34^\circ$
- B.  $68^\circ$
- C.  $93.6^\circ$
- D.  $98.6^\circ$

9. What are the two least favorite burger toppings?



- A. Onions and Pickles
- B. Onions and Tomatoes
- C. Pickles and Cheese
- D. Onions and Lettuce