

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR MATHEMATICS, GRADE 7**

*(Test items developed for instructional objectives)*

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*Skills*

- |     |  |     |  |
|-----|--|-----|--|
| 1.0 | Number Sense                             | 3.0 | Measurement and Geometry                   |
| 1.1 | Rational Numbers                         | 3.1 | Appropriate Units of Measurement           |
| 1.2 | Exponents/Powers/Roots                   | 3.2 | Perimeter/Area/Volume                      |
| 2.0 | Algebra and Functions                    | 3.3 | Pythagorean Theorem                        |
| 2.1 | Quantitative Relationships               | 4.0 | Statistics, Data Analysis, and Probability |
| 2.2 | Integer Powers/Simple Roots              | 4.1 | Data Sets                                  |
| 2.3 | Graphs                                   |     |  |
| 2.4 | Simple Linear Equations/<br>Inequalities |     |  |

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Number of questions: 71

Number of pages: 12

Approximate testing time: 75 minutes

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(OVER)

**PRACTICE TEST IN MATHEMATICS - GRADE 7**  
**FORM A**

Read each problem. Choose the correct answer and mark your answer sheet.

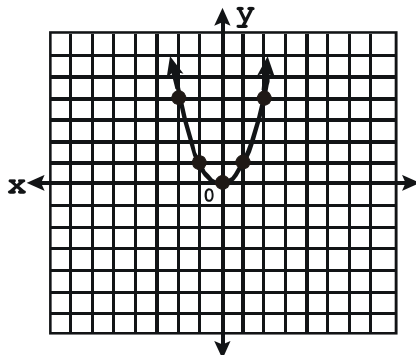
1. Marsha's science book tells her that the mass of a flea is  $3^{-6}$  grams. How many grams of mass does the flea have?

- A.  $\frac{1}{729}$   
 B.  $\frac{1}{18}$   
 C.  $-\frac{1}{729}$   
 D.  $-\frac{1}{18}$

2. There were 8 flashlight batteries in the drawer. Dad put 5 more batteries in the drawer. Mother took out 3 of the batteries. Which of the number sentences could be used to find out how many batteries remained in the drawer?

- A.  $(8 - 5) + 3 =$   
 B.  $(8 + 5) - 3 =$   
 C.  $(8 + 3) - 5 =$   
 D.  $8 + 5 + 3 =$

3. Which of the following is the equation of the graph below?



- A.  $y=2x$   
 B.  $y=x^2$   
 C.  $y=x$   
 D.  $y=2x^2$

4. Which number will make the inequality true?

$$2x - 5 > 12$$

- A. 9  
 B. 8  
 C. 7  
 D. 6

5. Landon is fencing a pasture for his goats. The pasture is rectangular with dimensions 45 feet by 35 feet. How much fencing material will he need?

- A. 1575 feet  
 B. 1200 feet  
 C. 235 feet  
 D. 160 feet

6. How many days was the temperature above 10 degrees?

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 7 |
| 1 | 0 | 0 | 1 | 1 | 1 | 5 | 6 |   |
| 2 | 0 | 2 | 8 | 8 |   |   |   |   |
| 3 | 1 | 1 |   |   |   |   |   |   |

2|0 means 20

- A. 7  
 B. 9  
 C. 11  
 D. 13

7. What number is represented by  $3.4 \times 10^4$ ?

- A. 3,400  
 B. 34,000  
 C. 340,000  
 D. 3,400,000