

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 8

(Test items developed for skills measured in LA03)

Skills

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|-----|--|-----|---|
| 1.0 | Number and Number Relations | 4.0 | Geometry |
| 1.1 | Rational Numbers | 4.1 | Describe/Order/Compare |
| 1.2 | Number Sense and Estimation | 4.2 | Geometric Figures and Concepts |
| 1.3 | Representing Rational Numbers | 4.3 | Predicting |
| 1.4 | Basic Arithmetic Operations | 4.4 | Geometric Properties |
| 1.5 | Real-Life Situations | 4.5 | Points/Coordinates/Graph Points |
| 1.6 | Proportional Reasoning | | |
| 2.0 | Algebra | 5.0 | Data Analysis, Probability, and Discrete Math |
| 2.1 | Variables, Expressions, Equations, Inequalities | 5.1 | Collecting, Organizing, Describing Data |
| 2.2 | Solving Equations, Inequalities | 5.2 | Analyze Data |
| 2.3 | Tables/Graphs | 5.3 | Informal Thinking Procedures |
| 3.0 | Measurement | 5.4 | Counting and Enumeration Procedures |
| 3.1 | Concepts of Length/Area/Volume/Capacity/Weight, etc. | 5.5 | Compare Experimental Probability with Theoretical Probability |
| 3.2 | Estimation Involving Customary and Metric Systems | 6.0 | Patterns, Relations, and Functions |
| 3.3 | Selecting Appropriate Units of Measure | 6.1 | Patterns |
| 3.4 | Intuition and Estimation of Units of Measurement | 6.2 | Analyze Relationships |
| 3.5 | Conversion of Measurement | | |

Number of questions: 60

Number of pages: 14

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(OVER)

**LA03 PRACTICE TEST IN MATHEMATICS - GRADE 8
FORM A**

PART 1

Read each question and choose the correct answer. You may NOT use a calculator for questions 1-30.

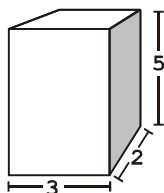
1. Which of the following lists the fractions $\frac{5}{6}$, $\frac{11}{15}$, $\frac{2}{3}$, $\frac{4}{5}$ from least to greatest?

- A. $\frac{11}{15}$, $\frac{5}{6}$, $\frac{4}{5}$, $\frac{2}{3}$
 B. $\frac{2}{3}$, $\frac{11}{15}$, $\frac{4}{5}$, $\frac{5}{6}$
 C. $\frac{4}{5}$, $\frac{5}{6}$, $\frac{2}{3}$, $\frac{11}{15}$
 D. $\frac{2}{3}$, $\frac{4}{5}$, $\frac{5}{6}$, $\frac{11}{15}$

2. An apple and an orange cost 27 cents. The orange costs 9 cents more than the apple. Which sentence could be used to find x , the cost of the apple?

- A. $x = 27 + 9$
 B. $x(27) + 9 = 27 - 9$
 C. $x - 9 = 27$
 D. $x + (x + 9) = 27$

3. Linda is painting her file cabinet to match her new office. She will paint all four sides and the top, leaving only the bottom unpainted.



How many square feet will she paint?

- A. 30
 B. 50
 C. 56
 D. 66

4. Marsha is making punch for the party on Friday. She needs $2\frac{1}{2}$ gallons of ginger ale, $\frac{1}{3}$ gallon of fruit juice, and $\frac{2}{3}$ gallon of water. Use mental math to determine the amount of punch her recipe will make.

- A. $2\frac{5}{8}$ gallons
 B. 3 gallons
 C. $3\frac{1}{2}$ gallons
 D. $3\frac{2}{3}$ gallons