

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 9

(Test items developed for skills measured in ITBS03)

Skills

- | | | | |
|-----|------------------------------------------|-----|-------------------------|
| 1.0 | Math Concepts | 3.0 | Processes |
| 1.1 | Numbers/Operations | 3.1 | Concepts and Procedures |
| 1.2 | Data Analysis/Probability/
Statistics | 3.2 | Interpret Data |
| 1.3 | Geometry | 3.3 | Problem Solving |
| 1.4 | Algebra | 4.0 | Thinking Skills |
| 2.0 | Computation | 4.1 | Math Concepts |
| 2.1 | Integers | | |
| 2.2 | Decimals/Percents | | |
| 2.3 | Fractions | | |
| 2.4 | Algebra | | |

Number of questions: 70

Number of pages: 10

Approximate testing time: 55 minutes

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(OVER)

ITBS03 PRACTICE TEST IN MATHEMATICS - GRADE 9
FORM A

DIRECTIONS: Read each question and then choose the correct answer.

SAMPLE A

Rhonda measured her family to determine heights. The results are as follows:

Abe 48", Chris 56", Matt 69",
Sue 54", and Sharon 65".

How much taller is Matt than Sue?

- A. 15"
- B. 18"
- C. 19"
- D. 22"

1. Leavy is purchasing the ingredients for spaghetti salad. He needs twice as much spaghetti as cheese. If he buys 6 ounces of cheese, how many ounces of spaghetti should he buy?
 - A. 3
 - B. 6
 - C. 12
 - D. 18
2. Marty's tomato plant grows $1\frac{1}{3}$ inches per week. About how much will it grow in 20 days?
 - A. 2 inches
 - B. 3 inches
 - C. 4 inches
 - D. 5 inches
3. The Stars basketball team must run 3 minutes for every 10 points that they lose by. They lost last night's game by 15 points. How long will they have to run?
 - A. 4.5 minutes
 - B. 5 minutes
 - C. 5.5 minutes
 - D. 6.5 minutes
4. It costs \$4.50 a square foot for carpet. James's room is 12 feet by 10 feet. What will it cost him to carpet his room?
 - A. \$450.00
 - B. \$500.00
 - C. \$540.00
 - D. \$650.00
5. The ratio of boys to girls at Camp Bright Lift is $\frac{7}{5}$. If there are 15 girls, how many boys are there?
 - A. 21
 - B. 35
 - C. 45
 - D. 85
6. Express the following in standard notation: 2.6385×10^5
 - A. 263850
 - B. 2.6385
 - C. 2638.5
 - D. .00026385
7. Which list of numbers is in order from least to greatest?
 - A. 2, 1, 0, $-\frac{1}{5}$, $-\frac{5}{2}$, $-\frac{7}{2}$
 - B. 0, $\frac{1}{7}$, 2, $\frac{5}{3}$, $-\frac{2}{3}$
 - C. $-\frac{62}{3}$, $-\frac{53}{3}$, $\frac{31}{7}$, 0, $\frac{6}{3}$
 - D. $\frac{3}{3}$, $-\frac{3}{3}$, $-\frac{2}{2}$, 0, 1, -1
8. Jo is growing bacteria in science class. Day 1, she has 3 grams. On day 2 she has 6 grams, and on day 3 she has 12 grams. If this growth pattern continues, how many grams will she have on day 5?
 - A. 48
 - B. 56
 - C. 124
 - D. 144