

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 7

(Test items developed for skills measured in TAKS03)

Skills

- | | |
|---|---|
| 1.0 Understand Numbers, Operations,
Quantitative Reasoning | 4.0 Measurement |
| 1.1 Equivalent Forms | 4.1 Length/Area/Volume |
| 1.2 Solves Problems/Justifies
Solutions | 5.0 Probability and Statistics |
| 2.0 Patterns, Relationships,
Algebraic Reasoning | 5.1 Real Life Problems |
| 2.1 Proportional Relationships | 5.2 Data Analysis |
| 2.2 Represent Relationships | 5.3 Central Tendency/Range |
| 2.3 Equations | 6.0 Problem Solving |
| 3.0 Geometry and Spatial Reasoning | 6.1 Everyday Problems |
| 3.1 Classifies Shapes and Solids | 6.2 Communicate Mathematical
Ideas |
| 3.2 Location on a Plane | 6.3 Making Conjecture/Verify
Conclusions |

Number of questions: 48

Number of pages: 11

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(OVER)

**TAKS03 PRACTICE TEST IN MATHEMATICS - GRADE 7
FORM A**

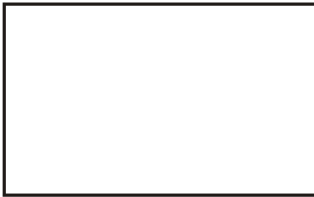
DIRECTIONS: Read each problem. Choose the correct answer and mark your answer sheet.

SAMPLE

Mr. Plunkett has graded 12 of the 18 projects turned in this morning. What percent has he graded?

- A. 67%
- B. 65%
- C. 60%
- D. 57%

1. Use the ruler on the Mathematics Chart to measure the dimensions of the rectangle below.



Which of the following correctly gives the dimensions and area of the rectangle?

- A. 4.1 cm by 2.5 cm with an area of 10.25 sq. cm.
 - B. 4.1 cm by 2.5 cm with an area of 13.2 sq. cm.
 - C. 4.1 cm by 3.5 cm with an area of 14.35 sq. cm.
 - D. 4.1 cm by 3.5 cm with an area of 15.2 sq. cm.
2. Mrs. Smith had 120 students in her classes last year. This year she has 10% more. How many students does she have this year?
- A. 108
 - B. 130
 - C. 132
 - D. 142

3. A bookstore received a carton that contained 12 copies of a dictionary. Each dictionary weighs 2.3 kg, and the carton weighs 1.3 kg. What is the total weight of the filled carton?

- A. 26.3 kg
- B. 27.6 kg
- C. 27.9 kg
- D. 28.9 kg

4. If the cylinder below is sliced from top to bottom, what will the inside view look like?

- A. Rectangle
- B. Triangle
- C. Circle
- D. Cone



5. Marsha earns \$6.50 an hour baby-sitting. If she earned \$78.00 last week, how many hours did she babysit?

- A. 11
- B. 12
- C. 13
- D. 14

6. Which of the following geometric figures has only one base?

- A. Cube
- B. Cone
- C. Cylinder
- D. Sphere

7. The French Club is taking a field trip. The cost of renting a bus is \$20.00 plus \$0.30 a mile. Each of the 12 members must pay an equal share of the cost. Which expression shows the correct method for finding the cost each member will pay?

- A. $(\$20.00 + \$0.30m) \div 12$
- B. $(\$20.00 \times \$0.30m \times 12)$
- C. $\$20.00 + \$0.30m + 12$
- D. $(\$20.00 \times 12) \div \$0.30m$