

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR MATHEMATICS, GRADE 7**

*(Test items developed for skills measured in TCAP)*

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*Skills*

- |     |                       |     |                              |
|-----|-----------------------|-----|------------------------------|
| 1.0 | Number and Operations | 4.0 | Real World Problems          |
| 1.1 | Numerical Reasoning   | 4.1 | One- and Two-Step Problems   |
| 1.2 | Place Value           | 4.2 | Rate Charts                  |
| 1.3 | Estimation            | 4.3 | Visualization                |
| 1.4 | Order of Operations   | 4.4 | Ratios/Proportions           |
| 2.0 | Algebra               | 5.0 | Data Analysis/Probability    |
| 2.1 | Patterns              | 5.1 | Data on Graphs               |
| 2.2 | Predict               | 5.2 | Probability                  |
| 2.3 | Function Rules        | 6.3 | Mean/Median                  |
| 2.4 | Symbols               | 6.0 | Measurement                  |
| 2.5 | Linear Equations      | 6.1 | Estimate                     |
| 3.0 | Graphs                | 6.2 | Perimeter/Area               |
| 3.1 | Scatter Plot          | 6.3 | Distance                     |
| 3.2 | Rates of Change       | 6.4 | Appropriate Units of Measure |
| 3.3 | Points                | 6.5 | Convert Measurements         |
| 3.4 | Predictions           | 7.0 | Geometry                     |
|     |                       | 7.1 | Segments/Angles/Polygons     |
|     |                       | 7.2 | Triangles                    |
|     |                       | 7.3 | Transformations              |
|     |                       | 7.4 | Polygons                     |

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Number of questions: 64

Number of pages: 13

Approximate testing time: 80 minutes

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(OVER)

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

**PART 1**

Read each problem and choose the correct answer. Stop when you come to the word STOP.

1. Which of the following is a prime number?

A. 27  
B. 29  
C. 33  
D. 49

2. Which of the following is equivalent to  $21\frac{5}{8}$ ?

A. 21.125  
B. 21.16  
C. 21.58  
D. 21.625

3. Mr. Randolph records the rainfall for the city of Brewster. He recorded these amounts for the month of February:  $\frac{3}{10}$  inch, 0.75 inch,  $\frac{1}{2}$  inch,  $\frac{1}{4}$  inch,  $\frac{1}{10}$  inch. Which of the following is the best estimate for the total rainfall for February?

A. 1 inch  
B. 1.5 inches  
C. 2 inches  
D. 3 inches

4. Which of the following is the first step in finding the value of the expression  $3+4(5-6)-11$ ?

A.  $3+4$   
B.  $5-6$   
C.  $4x-1$   
D.  $7-11$

5. What is the next number in the pattern below?

1, 2, 3, 5, 8, 13, \_\_\_\_

A. 21  
B. 19  
C. 17  
D. 16

6. 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

- 7.

Number correct	Score
15	75
18	90
12	60
13	65

Which equation correctly represents the relationship between the number of questions correct,  $n$ , and the score,  $S$ ?

A.  $5n = S$   
B.  $5 + n = S$   
C.  $5S = n$   
D.  $5(S + n)$