

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 8

(Test items developed for skills measured in TCAP)

Skills

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|-----|-----------------------|-----|------------------------------|
| 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 | Cost Per Unit |
| 1.3 | Estimation | 4.3 | Visualization |
| 1.4 | Order of Operations | 4.4 | Ratios/Proportions |
| 2.0 | Algebra | 4.5 | Rate/Time/Distance |
| 2.1 | Patterns | 5.0 | Data Analysis/Probability |
| 2.2 | Predict | 5.1 | Data |
| 2.3 | Multi-Step Equations | 5.2 | Probability |
| 2.4 | Symbols | 5.3 | Mean/Mode/Median |
| 2.5 | Linear Equations | 5.4 | Hypothesis |
| 3.0 | Graphs | 6.0 | Measurement |
| 3.1 | Lines | 6.1 | Estimate |
| 3.2 | Rates of Change | 6.2 | Apply Formulas |
| 3.3 | Points | 6.3 | Convert Measurements |
| 3.4 | Predictions | 6.4 | Appropriate Units of Measure |
| 3.5 | Linear Equations | 6.5 | Pythagorean Theorem |
| | | 7.0 | Geometry |
| | | 7.1 | Classify Figures |
| | | 7.2 | Angles |

Number of questions: 64
Number of pages: 14
Approximate testing time: 80 minutes

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(OVER)

TCAP PRACTICE TEST IN MATHEMATICS - GRADE 8
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 reciprocal of $\frac{4}{7}$?
- A. $-\frac{4}{7}$
B. $\frac{4}{7}$
C. $\frac{7}{4}$
D. $1\frac{4}{7}$
2. Which of the rational numbers will make the statement true?
 $\frac{3}{5} > \underline{\quad}$
- A. $\frac{2}{3}$
B. $\frac{1}{4}$
C. $\frac{1}{2}$
D. $\frac{3}{8}$
3. 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
4. Evaluate: $3^2 - (4+5) + 6$
- A. -12
B. -6
C. 6
D. 12
5. Which of the following is the rule for the given pattern?
0, 1, 4, 9, 16, 25, ...
- A. $x + x$
B. x^2
C. $2x$
D. $x + 3$