

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 9

(Test items developed for skills measured in CAT-5)*

Skills

- | | |
|--|---|
| 1.0 Mathematics Computation | 2.0 Mathematics Concepts and Application |
| 1.1 Adding, Subtracting, Multiplying, and Dividing Decimal Numbers | 2.1 Numeration |
| 1.2 Adding, Subtracting, Multiplying, and Dividing Fractions | 2.2 Number Theory |
| 1.3 Adding, Subtracting, Multiplying, and Dividing Integers | 2.3 Interpreting |
| 1.4 Solving Problems Involving Percents | 2.4 Understanding Concepts/Processes that Relate to Algebra Skills and Functions |
| 1.5 Solving Problems Involving the Standard Order of Operations | 2.5 Understanding of Measurement Concepts and Skills and Their Application in Problem Solving |
| 1.6 Solving Problems Involving Exponents and Algebraic Equations | 2.6 Demonstrating Understanding of Geometric Concepts, Properties, and Relationships and Their Application in Problem Solving |
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(OVER)

CAT-5 MATH PRACTICE TEST - GRADE 9

1. $[34 - (8 - 3)]3 - 2 =$

- A. 85
B. 32

- C. 64
D. none of these
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2. $\frac{2}{11} + \frac{4}{11} + \frac{8}{11} =$

A. $1\frac{3}{11}$

B. $1\frac{1}{3}$

C. $\frac{3}{11}$

D. $1\frac{4}{11}$

3.
$$\begin{array}{r} 784.07 \\ - 0.124 \\ \hline \end{array}$$

A. 78.3946

B. 0.783946

C. 783.946

D. 7839.46

4. $\frac{2}{7} \div 1\frac{1}{7} =$

A. $\frac{1}{8}$

B. $\frac{1}{4}$

C. $\frac{13}{56}$

D. none of these

5. $-6 \times -40 =$

A. 240

B. -240

C. 320

D. -320

6. $48.82 + 129.3 + 0.0278 =$

A. 178.1478

B. 17.81748

C. 17814.78

D. 1781.478

7. $-6 \times 14 =$

A. -84

B. 84

C. 2

D. -2