

SKILLS LIST and SAMPLE ITEMS FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 8
(Test items developed for skills measured in MCT)

Skills

- 1.0 Numbers Sense
 - 1.1 Number Meaning, Operations
 - 2.0 Geometry
 - 2.1 Shapes, Lines, Angles
 - 3.0 Measurement
 - 3.1 Using Standard, Non-Standard Units
 - 3.2 Estimation
 - 4.0 Data Analysis, Statistics, Probability
 - 4.1 Collecting, Organizing, Describing Data
 - 4.2 Probability
 - 5.0 Algebra
 - 5.1 Variables, Expressions, Equations
 - 5.2 Patterns
-

Number of questions: 50
Number of pages: 14

(c) EPES TESTING, INC.

(OVER)

MCT PRACTICE TEST IN MATHEMATICS - GRADE 8

1. The Big City Bobcats got possession of the ball on their own 20 yard line. The next four plays resulted in a 3-yard gain, a 10-yard loss, a 2-yard loss, and a 30-yard gain. What yard line was the ball on after the fourth play?

A. 41
B. 34
C. 5
D. -5

2. The price of a stereo system is \$374.50, which includes 7% sales tax. What was the cost of the stereo system before tax?

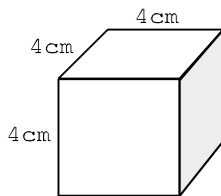
A. \$26.22
B. \$350
C. \$367.50
D. \$400

3. What number should go in the blank to make the statement true?

$$10(7 + 3) - 15 = (_ \times 8) + (_ \times 9)$$

A. 4
B. 5
C. 6
D. 45

4. How many square centimeters of original surface area are left when a 2cm x 2cm x 2cm cube is removed from the outside?



A. 84 square centimeters
B. 72 square centimeters
C. 64 square centimeters
D. 8 square centimeters

5. The plumber charges \$50 for every service call and \$30 for each hour he spends working on location. Which expression gives the total cost of a repair that takes n hours?

A. $80n$
B. $80 + n$
C. $30 + 50 + n$
D. $50 + 30n$

6. What is the absolute value of -26?

A. -26
B. -13
C. 13
D. 26

7. Lucy's digital clock read 7:15 a.m. when she left for work. When she returned 7 hours and 15 minutes later, the clock read 5:55 a.m. because the power had gone off during the day. If her clock automatically resets to 12:00 a.m. when the power restores, what time of day did the power return?

A. 8:35 a.m.
B. 8:35 p.m.
C. 3:15 a.m.
D. 12:05 p.m.

8. About how many \$.33 stamps can be purchased with \$5?

A. 25
B. 15
C. 8
D. 1.65

9. Jack used his calculator to find the square root of 27. The answer in the display read 5.1961524. Which value is this nearer?

A. 5
B. $\sqrt{30}$
C. $\frac{27}{5}$
D. $\sqrt[3]{27}$