

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 8

(Test items developed for skills measured in OCCT)

Skills

- | | |
|----------------------------------|----------------------------------|
| 1.0 Algebra | 3.0 Geometry and Measurement |
| 1.1 Equations | 3.1 Solids |
| 1.2 Inequalities | 3.2 Estimate Surface Area/Volume |
| 2.0 Number Sense | 3.3 Ratio/Proportion |
| 2.1 Rational Numbers/Proportions | 3.4 Formulas |
| 2.2 Exponents | 4.0 Data Analysis and Statistics |
| | 4.1 Data Representation |
| | 4.2 Central Tendency/Range |
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Number of questions: 45

Number of pages: 9

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(OVER)

OCCT PRACTICE TEST IN MATH - GRADE 8

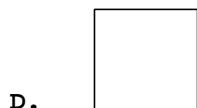
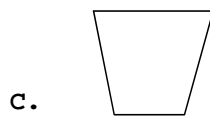
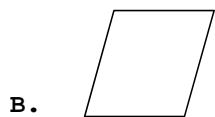
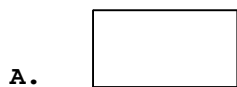
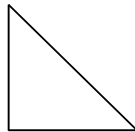
1. What is the value of $2x^2 - 7x - 3$ if $x = -3$?

- A. -36
- B. -6
- C. 6
- D. 36

2. Which of the following lists the fractions $\frac{5}{6}, \frac{11}{15}, \frac{2}{3}, \frac{4}{5}$ from least to greatest?

- A. $\frac{11}{15}, \frac{5}{6}, \frac{4}{5}, \frac{2}{3}$
- B. $\frac{2}{3}, \frac{11}{15}, \frac{4}{5}, \frac{5}{6}$
- C. $\frac{4}{5}, \frac{5}{6}, \frac{2}{3}, \frac{11}{15}$
- D. $\frac{2}{3}, \frac{4}{5}, \frac{5}{6}, \frac{11}{15}$

3. What figure would result when 2 of the given figures are combined?



4. If the rectangle ABCD, shown in the figure, is transformed by $T(x,y) = (x + 1, y + 1)$ and then by $S(x,y) = (2x, 2y)$, which graph represents the transformed rectangle?

