

SKILLS LIST and SAMPLE TEST ITEMS

FOR

**PRACTICE TEST FOR MATHEMATICS, GRADE 8
SHORT FORM A**

(Test items developed for skills measured in STANFORD10)

Skills

- | | |
|---------------------------------|---------------------------------|
| 1.0 Problem Solving | 4.0 Thinking Skills |
| 1.1 Number Sense and Operations | 4.1 Number Sense and Operations |
| 1.2 Algebra | 4.2 Algebra |
| 1.3 Data Interpretation | 4.3 Data Interpretation |
| 1.4 Geometry/Measurement | 4.4 Geometry/Measurement |
| 2.0 Procedures | 4.5 Estimation |
| 2.1 Decimals | 4.6 Connections |
| 2.2 Fractions | 4.7 Reasoning |
| 2.3 Integers | 4.8 Decimals |
| 3.0 Related Processes | 4.9 Fractions |
| 3.1 Symbols and Terms | 4.10 Integers |
| 3.2 Estimation | 4.11 Everyday Problems |
| 3.3 Connections | 4.12 Use Symbols and Notations |
| 3.4 Reasoning | |
| 3.5 Everyday Problems | |
| 3.6 Use Symbols and Notations | |

Number of questions: 50

Number of pages: 12

Approximate testing time: 49 minutes

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(OVER)

**STANFORD10 PRACTICE TEST IN MATHEMATICS - GRADE 8
FORM A**

DIRECTIONS: Read each question and then choose the correct answer.

SAMPLE A

John has 93.456 points in science class. Round this number to the nearest hundredth.

- A. 94.00
- B. 93.55
- C. 93.46
- D. 93.36

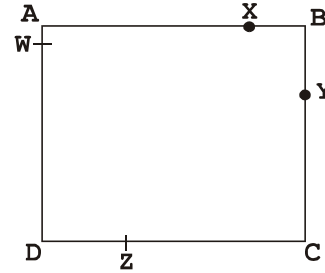
SAMPLE B

Mr. Plunkett has graded 12 of the 18 projects turned in this morning. What percent has he graded?

- A. 67%
- B. 65%
- C. 60%
- D. 57%

1. The area of the Pacific Ocean is 6.41863×10^7 square miles. What is this area written as a decimal to the nearest ten thousand?
- A. 64,190,000 sq mi
 - B. 64,186,000 sq mi
 - C. 6,419,000 sq mi
 - D. 642,000 sq mi

2.



Each side of the square is $6\frac{2}{3}$ units long. Which segment appears to be $1\frac{2}{3}$ units long?

- A. \overline{XB}
- B. \overline{YC}
- C. \overline{ZD}
- D. \overline{WA}

3. Ellen sold 24 more than 3 times the number of magazines that Paul sold. If e represents the number of magazines that Ellen sold, which expression represents the number of magazines p that Paul sold?

- A. $p = 3(e - 24)$
- B. $p = 24 + 3e$
- C. $p = \frac{24 - e}{3}$
- D. $p = \frac{e - 24}{3}$

4. Which pair of numbers is equivalent?

- A. $3\sqrt{2}, \sqrt{6}$
- B. $|6 - 7|, |7 - 6|$
- C. $3^4, 4^3$
- D. $14^2, -14^2$