

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR MATHEMATICS, GRADE 8**

*(Test items developed for skills measured in STANFORD10)*

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*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   |                                 |

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Number of questions: 80

Number of pages: 17

Approximate testing time: 80 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

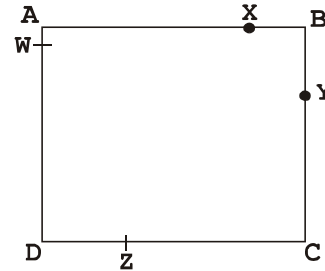
**SAMPLE B**

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  $6.41863 \times 10^7$  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.  $14^2$ ,  $-14^2$