

SKILLS LIST and SAMPLE TEST ITEMS

FOR

**PRACTICE TEST FOR MATHEMATICS, GRADE 11
SHORT FORM A**

(Test items developed for skills measured in STANFORD10)

Skills

- | | |
|---------------------------------|---------------------------------|
| 1.0 Problem Solving | 3.0 Thinking Skills |
| 1.1 Number Sense and Operations | 3.1 Number Sense and Operations |
| 1.2 Algebra | 3.2 Algebra |
| 1.3 Data Interpretation | 3.3 Data Interpretation |
| 1.4 Geometry/Measurement | 3.4 Geometry/Measurement |
| 2.0 Related Processes | 3.5 Symbols and Terms |
| 2.1 Symbols and Terms | 3.6 Estimation |
| 2.2 Estimation | 3.7 Connections |
| 2.3 Connections | 3.8 Problem Solving |
| 2.4 Problem Solving | |

Number of questions: 30
Number of pages: 9
Approximate testing time: 30 minutes

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STANFORD10 PRACTICE TEST IN MATHEMATICS - GRADE 11 FORM A

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

SAMPLE

Rhonda measured her family to determine heights. The results are as follows:

Abe 48", Chris 56", Matt 69",
Sue 54", and Sharon 65".

How much taller is Matt than Sue?

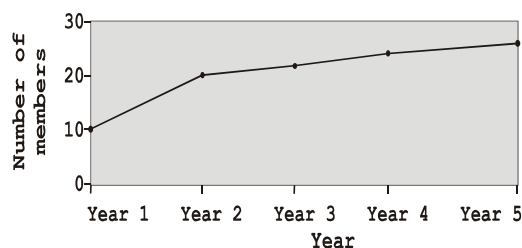
- A. 15"
- B. 18"
- C. 19"
- D. 22"

1. Which of the following measures of central tendency is always a piece of the data?

- A. Range
- B. Mean
- C. Median
- D. Mode

2. The chart below shows the number of students in the Library Club.

Library Membership

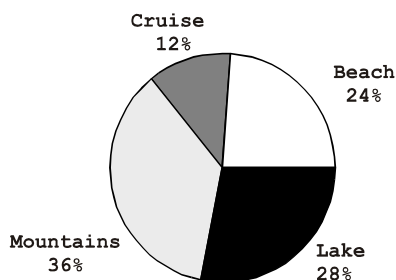


Based on this data, how many members will there be in Year 6?

- A. 18
- B. 21
- C. 26
- D. 35

3. Travel Time surveyed 12,000 households to find the most popular vacation destination. The results are shown in the graph below.

Favorite Vacation Destinations



Based on these findings, how many people prefer the beach?

- A. 2880
- B. 3880
- C. 6080
- D. 6508

4. Marsha is blindfolded and must choose a letter and then a color from the two groups below.

BTXKL Red, Green, Yellow, Blue, Orange

What is the probability that she chooses K and Orange?

- A. $\frac{1}{2} + \frac{1}{2}$
- B. $\frac{1}{5} \times \frac{1}{5}$
- C. $\frac{1}{5} + \frac{1}{5}$
- D. $\frac{1}{2} - \frac{1}{5}$

5. There are 6 students running for President, 6 for Vice President, and 4 for Secretary. How many different combinations of officers could occur?

- A. 144
- B. 124
- C. 84
- D. 40