

SKILLS LIST and SAMPLE TEST ITEMS

FOR

**PRACTICE TEST FOR MATHEMATICS, GRADE 10
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 | Estimation |
| 2.1 | Symbols and Terms | 3.6 | Connections |
| 2.2 | Estimation | 3.7 | Problem Solving |
| 2.3 | Connections | | |
| 2.4 | Problem Solving | | |

Number of questions: 30
Number of pages: 8
Approximate testing time: 30 minutes

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**STANFORD10 PRACTICE TEST IN MATH - GRADE 10
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.

| x | y |
|---|----|
| 0 | -4 |
| 1 | -2 |
| 2 | 0 |
| 3 | 2 |

Which of the following equations represents this table?

- A. $y = 4 - 2x$
- B. $y = 4x - 2$
- C. $y = 2x - 4$
- D. $y = 2x + 4$

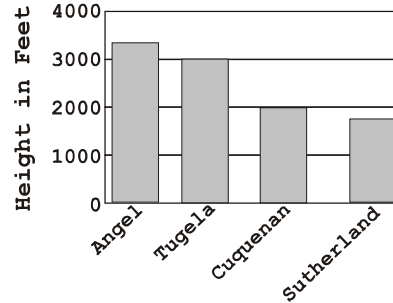
2. Which of the following is the solution to the quadratic equation?

$$x^2 - 2x - 15 = 0$$

- A. -3, 5
- B. 3, -5
- C. -3, -5
- D. 3, 5

3.

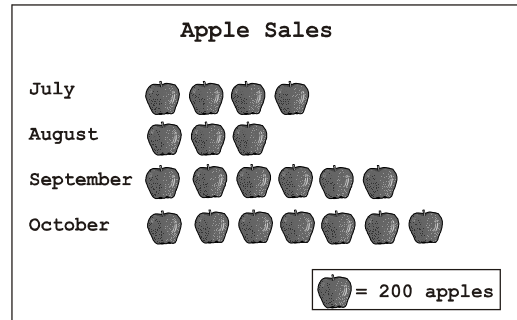
The Four Highest Waterfalls



Find the range of the 4 tallest waterfalls from the graph.

- A. 3200 ft.
- B. 2000 ft.
- C. 1400 ft.
- D. 1000 ft.

4. The graph below shows how many apples Jan sold per month.



Find the average number sold per month.

- A. 800
- B. 1000
- C. 1200
- D. 1400