

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 10

(Test items developed for skills measured in Stanford9)*

Skills

- | | | | |
|------|--|------|-------------------|
| 1.0 | Problem Solving | 3.3 | Statistics |
| 1.1 | Conventional/Non-Routine Problem Solving | 3.4 | Probability |
| 1.2 | Algebra | 3.5 | Tables/Graphs |
| 1.3 | Statistics | 3.6 | Geometry |
| 1.4 | Probability | 3.7 | Geometry/Algebra |
| 1.5 | Tables/Graphs | 3.8 | Trigonometry |
| 1.6 | Geometry | 3.9 | Reading Problems |
| 1.7 | Geometry/Algebraic Representations | 3.10 | Calculus |
| 1.8 | Trigonometry | 3.11 | Problem Solving |
| 1.9 | Reading Problems | 3.12 | Reasoning |
| 1.10 | Calculus | 3.13 | Communication |
| | | 3.14 | Connections |
| 2.0 | Process | 4.0 | Using Information |
| 2.1 | Problem Solving | 4.1 | Statistics |
| 2.2 | Reasoning | 4.2 | Trigonometry |
| 2.3 | Communication | 4.3 | Reasoning |
| 2.4 | Connections | 4.4 | Connections |
| 3.0 | Thinking Skills | | |
| 3.1 | Conventional/Non-Routine Problem Solving | | |
| 3.2 | Algebra | | |

Number of questions: 48

Number of pages: 15

Approximate testing time: 45 minutes

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(OVER)

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Stanford9 MATHEMATICS PRACTICE TEST GRADE 10

1. Littleton Airport is 50 miles due south of Milford. Milford is 120 miles due east of Fielding Airport. How far is it from Fielding Airport to Littleton Airport?

A. 170 miles B. 70 miles C. 130 miles D. 120 miles

2. A wire runs from a point on the ground to the top of a 24-ft. flagpole. The angle of elevation of the wire is 60° . How long is the wire?

A. 27.7 ft. B. 21.2 ft. C. 32.4 ft. D. 21.7 ft.

3. A survey found that 60 out of every 85 people in a city take public transportation to work. Out of 595 people, how many take public transportation to work?

A. 385 B. 420 C. 502 D. 518

4. At Max's Restaurant the cost of a child's dinner is \$3.00 less than the cost of an adult dinner. You bought four children's dinners and paid \$18.00. What is the cost of an adult dinner?

A. \$5.75 B. \$6.25 C. \$7.50 D. \$7.95

5. Mr. Elsen rented a car for \$35.00 a day and \$0.45 a mile. He had the car for two days and paid \$166.75. How many miles did he drive?

A. 175 B. 215 C. 220 D. 325

6. Three inches on a map represent 100 miles. The distance on the map between two cities is $7\frac{1}{2}$ inches. What is the actual distance between the cities?

A. 250 miles B. 125 miles C. 360 miles D. 190 miles
