

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 10

(Test items developed for skills measured in TAKS03)

Skills

- | | |
|---|--|
| 1.0 Functional Relationships | 6.0 Geometric Relationships |
| 1.1 Quantities | 6.1 Transformational Geometry |
| 2.0 Functions | 6.2 Model/Describe Physical World |
| 2.1 Properties and Attributes | 7.0 Two- and Three Dimensional Relationships |
| 2.2 Algebra | 7.1 Model/Describe Physical World |
| 2.3 Manipulate Symbols | 8.0 Measurement/Similarity |
| 3.0 Linear Functions | 8.1 Solids |
| 3.1 Ways to Represent | 8.2 Indirect Measurement |
| 3.2 Slope/Intercepts of Linear Functions | 8.3 Linear/Area/Volume |
| 4.0 Linear Equations and Inequalities | 9.0 Problem Solving (Percents/Proportional Relationships/Probability/Statistics) |
| 4.1 Formulates Equations and Inequalities | 9.1 Proportional Relationships |
| 4.2 Problem Situations | 9.2 Predictions |
| 5.0 Quadratic and Other Nonlinear Functions | 9.3 Statistics |
| 5.1 Graphs | 10.0 Mathematical Processes/Tools |
| 5.2 Quadratic Equations | 10.1 Problem Solving |
| 5.3 Laws of Exponents | 10.2 Mathematical Ideas |
| | 10.3 Logical Reasoning |
-

Number of questions: 56

Number of pages: 15

(c) EPES TESTING, INC.

(OVER)

TAKS03 PRACTICE TEST IN MATHEMATICS - GRADE 10 FORM A

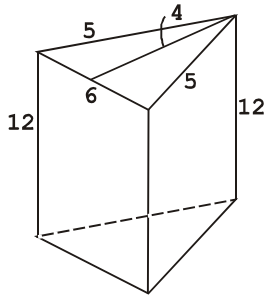
DIRECTIONS: Read each question. Mark the correct answer on your answer sheet.

1. Mr. Jackson's class had a competition for one week. The boys competed against the girls to see which group had the highest average. The results are in the table below.

Day	Boys	Girls
1	86	95
2	91	92
3	88	86
4	79	85
5	80	83

Which of the following best describes the competition?

- A. There was no difference in the boys and girls.
 B. The boys outscored the girls each and every day.
 C. The girls' average for the week was mostly higher than the boys.
 D. The girls' outscored the boys each and every day.
2. What is the surface area of the triangular pyramid below?



- A. 216 square units
 B. 286 square units
 C. 316 square units
 D. 612 square units

3. Ron and Jim have their names in the drawing for hall monitor. If chosen, there is a 25% chance that they will be chosen as 8th grade monitor for the month. What is the probability that Ron is chosen as 8th grade hall monitor for the month?

- A. $\frac{1}{16}$
 B. $\frac{1}{8}$
 C. $\frac{1}{4}$
 D. $\frac{1}{2}$

4. Which of the following is a true statement about the test scores below?

96, 75, 85, 64, 53, 96, 77, 55, 86

- A. The mean is larger than the median.
 B. The median is larger than the mean.
 C. The median is larger than the mode.
 D. The range is larger than the mean.

5. The ratio of boys to girls at Garland school is 3 to 2. There are 650 students in the school. Which system of equations will give the correct number of boys, b , and girls, g ?

- A. $b-g=650$; $\frac{b}{g} = \frac{3}{2}$
 B. $b+g=650$; $\frac{b}{g} = \frac{3}{2}$
 C. $b+g=650$; $\frac{b}{g} = \frac{2}{3}$
 D. $b-g=650$; $\frac{b}{g} = \frac{2}{3}$