

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS (EXIT EXAM), GRADE 11

(Test items developed for skills measured in TAKS03)

Skills

- | | |
|-----------------------------------|-----------------------------------|
| 1.0 Functional Relationships | 6.0 Geometric Relationships |
| 1.1 Quantities | 6.1 Geometric Relationships |
| 2.0 Functions | 6.2 Two- and Three Dimensional |
| 2.1 Properties and Attributes | 6.3 Congruence Transformations |
| 2.2 Algebra | 7.0 Two- and Three Dimensional |
| 2.3 Manipulate Symbols | Relationships |
| 3.0 Linear Functions | 7.1 Analyzes Relationship |
| 3.1 Ways to Represent | 7.2 Coordinate Systems |
| 3.2 Slope/Intercepts of Linear | 7.3 Characteristics |
| Functions | 8.0 Measurement |
| 4.0 Linear Equations and | 8.1 Area/Perimeter/Volume |
| Inequalities | 8.2 Similarity |
| 4.1 Formulates Equations and | 9.0 Application Problems |
| Inequalities | 9.1 Proportional Relationships |
| 4.2 Problem Situations | 9.2 Predictions |
| 5.0 Quadratic and Other Nonlinear | 9.3 Statistics |
| Functions | 9.4 Evaluates Predictions/ |
| 5.1 Graphs | Conclusions |
| 5.2 Quadratic Equations | 10.0 Mathematical Processes/Tools |
| 5.3 Laws of Exponents | 10.1 Problem Solving |
| | 10.2 Mathematical Ideas |
| | 10.3 Logical Reasoning |

Number of questions: 60

Number of pages: 15

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(OVER)

**TAKS03 PRACTICE TEST IN MATHEMATICS (EXIT EXAM) - GRADE 11
FORM A**

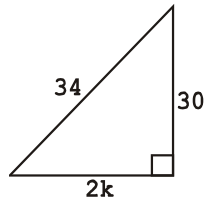
DIRECTIONS: Read each question. Mark the correct answer on your answer sheet.

1. Kamie purchased a suit from the department store which had a regular price of \$36.50. The suit was on sale for 20% off. Which expression would correctly give the price of the suit before tax?

- A. $.80(36.50)$
- B. $.20(36.50)$
- C. $36.50-.20$
- D. $36.50-.80$

2. What is the value of k in the right triangle below?

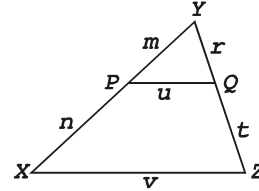
- A. 2
- B. 8
- C. 11
- D. $\sqrt{126}$



3. A rectangular photograph is 3 inches wide and 8 inches long. If the photograph is to be enlarged by a scale factor of $\frac{11}{4}$, what will be the perimeter of the enlarged photograph?

- A. 242 inches
- B. 121 inches
- C. 60.5 inches
- D. 30.25 inches

- 4.



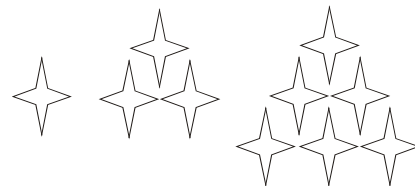
If triangle PYQ is similar to triangle XYZ in the figure below, which of these proportions is true?

- A. $\frac{r}{r+t} = \frac{u}{v}$
- B. $\frac{m}{u} = \frac{n}{v}$
- C. $\frac{m}{n} = \frac{u}{u+v}$
- D. $\frac{n}{t} = \frac{u}{v}$

5. Karen and Matt live 2 miles from each other. They each leave home at the same time and start walking toward each other. Karen walks 1.5 miles per hour and Matt walks 2.5 miles per hour. How many minutes will it take for them to meet?

- A. 15 minutes
- B. 20 minutes
- C. 25 minutes
- D. 30 minutes

- 6.



How many stars will be in the 5th figure?

- A. 8
- B. 10
- C. 15
- D. 21