

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR MATHEMATICS, GRADE 8**

*(Test items developed for skills measured in TAKS03)*

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*Skills*

- |   |  |
|---|--|
| 1.0 Understand Numbers, Operations,<br>Quantitative Reasoning | 4.0 Measurement                                |
| 1.1 Rational Numbers  | 4.1 Solids                                     |
| 1.2 Irrational Numbers  | 4.2 Indirect Measurement                       |
| 1.3 Scientific Notation                                       | 4.3 Linear/Area/Volume                         |
| 1.4 Appropriate Operations                                    | 5.0 Probability and Statistics                 |
| 2.0 Patterns, Relationships,<br>Algebraic Reasoning           | 5.1 Predict                                    |
| 2.1 Proportional Relationships                                | 5.2 Statistical Procedures to<br>Describe Data |
| 2.2 Represent Relationships                                   | 5.3 Evaluate Predictions/<br>Conclusions       |
| 2.3 Predict/Solve Problems                                    | 6.0 Problem Solving                            |
| 3.0 Geometry and Spatial Reasoning                            | 6.1 Everyday Problems                          |
| 3.1 Transformational Geometry                                 | 6.2 Communicate Mathematical<br>Ideas          |
| 3.2 Uses Geometry to Model/<br>Describe Physical World        | 6.3 Logical Reasoning                          |

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Number of questions: 50

Number of pages: 11

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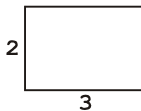
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TAKS03 PRACTICE TEST IN MATHEMATICS - GRADE 8  
FORM A

DIRECTIONS: Read each problem. Choose the correct answer and mark your answer sheet.

1. Which statistic would be most appropriate for determining the most frequent price paid for sneakers?
- A. mean
  - B. median
  - C. range
  - D. mode
2. Gary grows cabbage to enter into the fruit and vegetable show at his fair. He entered three cabbages. He entered three cabbages. The first weighed  $1\frac{1}{2}$  pounds, the second  $2\frac{1}{4}$  pounds, and the third  $2\frac{3}{8}$  pounds. There are several categories of competition. Which category will Gary's cabbages be in?
- A. Small 4 lbs -  $5\frac{1}{2}$  lbs
  - B. Medium  $5\frac{1}{2}$  lbs - 7 lbs
  - C. Large 7 lb lbs -  $8\frac{1}{2}$  lbs
  - D. Jumbo  $8\frac{1}{2}$  lbs - 10 lbs

3. Marge has a 2 inch by 3 inch photo that she wants to enlarge. She chooses to enlarge it by a factor of 2.



What effect will the enlargement have on the perimeter?

- A. The perimeter will stay the same.
- B. The perimeter will double.
- C. The perimeter will triple.
- D. The perimeter will quadruple.

4. Carletta has an 88 average in math class. She has taken 6 tests. She wants to have an A in the class, therefore she needs to have a 90 average. Which method below will she use to find out what she needs to make on the next test to have a 90 average?
- A.  $(90 \times 7) - (88 \times 6)$
  - B.  $(90 \times 7) - 88$
  - C.  $(90 \times 6) - (88 \times 6)$
  - D.  $88 \times 6 \times 90$
5. Lauren must cook 60 hamburgers for the Math Club Cookout. She can cook 8 burgers in 10 minutes. How many minutes will she need to cook 60 burgers?
- A. 70
  - B. 75
  - C. 80
  - D. 85