

*SKILLS LIST and SAMPLE TEST ITEMS*

*FOR*

**PRACTICE TEST FOR MATHEMATICS, GRADE 8**

*(Test items developed for skills measured in ITBS03)*

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Skills

- |     |                          |     |                 |
|-----|--------------------------|-----|-----------------|
| 1.0 | Math Concepts            | 3.0 | Computation     |
| 1.1 | Properties/Operations    | 3.1 | Whole Numbers   |
| 1.2 | Algebra                  | 3.2 | Fractions       |
| 1.3 | Geometry                 | 3.3 | Decimals        |
| 1.4 | Measurement              | 4.0 | Thinking Skills |
| 1.5 | Probability/Statistics   | 4.1 | Math Concepts   |
| 1.6 | Estimation               | 4.2 | Problem Solving |
| 2.0 | Problem Solving          |     |                 |
| 2.1 | Problem Solving          |     |                 |
| 2.2 | Locate/Interpret Amounts |     |                 |
| 2.3 | Quantities               |     |                 |
| 2.4 | Relationships            |     |                 |

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Number of questions: 113

Number of pages: 18

Approximate testing time: 75 minutes

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(OVER)

**ITBS03 PRACTICE TEST IN MATHEMATICS - GRADE 8  
FORM A**

**DIRECTIONS:** Read each question carefully and choose the correct answer. Mark that choice on your answer sheet.

**SAMPLE A**

John has 93.456 points in science class. Round this number to the nearest hundredth.

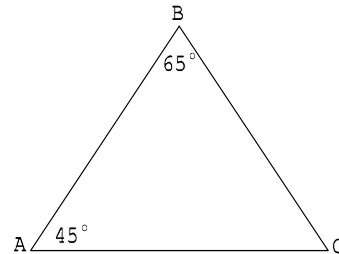
- A. 94.00
- B. 93.55
- C. 93.46
- D. 93.36

1. Which of the following would be most accurate in measuring the length of an ant?
  - A. Grams
  - B. Milligrams
  - C. Kilometers
  - D. Millimeters
  
2. Which property is demonstrated below?  
 $4 + (5 + 8) = (4 + 5) + 8$ 
  - A. Associative property
  - B. Distributive property
  - C. Reflexive property
  - D. Commutative property
  
3. Mandy worked  $\frac{1}{3}$  of her homework problems in 30 minutes. At this rate how long will she spend on all of her homework?
  - A. 1 hour
  - B. 1.5 hours
  - C. 2 hours
  - D. 3 hours

4. Sally sold 3 more rockets than two times the amount Jane sold. Together they sold 17. Which equation represents the total amount sold?
  - A.  $3 + x = 17$
  - B.  $3(2) + x = 17$
  - C.  $17 \times 2 = 3x$
  - D.  $3 + 3x = 17$

5. Which of the following demonstrates the distributive property?
  - A.  $9(3 + 5) = 9(3) + 9(5)$
  - B.  $9(3 + 5) = (9 \times 3) + 5$
  - C.  $9(3 + 5) = 9(3) + 5$
  - D.  $9(3 + 5) = 3 + 9(5)$

6. In the triangle below, angle A measures 45 degrees, and angle B measures 65 degrees.



What is the measure of angle C?

- A. 70 degrees
  - B. 75 degrees
  - C. 80 degrees
  - D. 85 degrees
7. Seth has a bag of candy. There are 12 blue, 8 red, 6 green, 10 yellow, and 4 orange. What is the probability that he picks a yellow one?
    - A.  $\frac{1}{4}$
    - B.  $\frac{1}{3}$
    - C.  $\frac{2}{5}$
    - D.  $\frac{1}{2}$