

2007 ISAT Grade 6  
Mathematics  
Short Response Item #1

**State Goal 6:** Number Sense

**Standard 6B, 6C:** Computation, Operations, Estimation, and Properties

**Assessment Objective 6.6.12:** Solve problems and number sentences involving addition, subtraction, multiplication, and division using whole numbers.

1

Jerry has \$36. He wants to buy 4 packs of sports cards that cost \$4 per pack including tax and a book that costs \$12 including tax.

Exactly how much money should Jerry have left after he buys the 4 packs of sports cards and the book?

Show your work.

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Mathematics  
Short Response Item #2

**State Goal 8:** Algebra

**Standard 8A:** Representations, Patterns, and Expressions

**Assessment Objective 8.6.03:** Evaluate algebraic expressions with up to two whole number variable values (e.g., evaluate  $3m + n + 3$  when  $m = 4$  and  $n = 2$ ).

2

Use the expression below to determine a value when  $x = 7$ .

$$20 - 2x$$

Show your work.

**2007 ISAT Grade 6  
Mathematics  
Extended Response Item #1**

**State Goal 10:** Data Analysis, Statistics, and Probability

**Standard 10A, 10B:** Data Analysis and Statistics

**Assessment Objective 10.6.04:** Determine the mode, range, median, and mean, given a set of data or a graph.

**1**

The table shows the number of points Carol has earned on each of 5 tests. The maximum score for each test is 100 points. She wants to have a mean (average) score of exactly 85 points for all six tests.

Test	Points
1	90
2	95
3	85
4	82
5	75
6	?

Exactly how many points must she earn on test 6 in order to have a mean (average) score of exactly 85 points for all six tests?

Show all your work. Explain in words how you found your answer. Tell why you took the steps you did to solve the problem.