

2007 ISAT Grade 4  
Mathematics  
Short Response Item #1

**State Goal 6:** Number Sense

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

**Assessment Objective 6.4.10:** Solve problems and number sentences involving addition and subtraction with regrouping and multiplication (up to three-digit by one-digit).

1

Ben and Sean shared a pizza that was cut into 16 equal slices. Ben ate 5 of the pizza slices. There were 2 pizza slices left after both boys finished eating their pizza.

How many pizza slices did Sean eat?

Show your work.

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Short Response Item #2

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

**Standard 10C:** Probability

**Assessment Objective 10.4.05:** Describe the chances associated with a context presented visually, including using the response format "3 out of 4" or  $\frac{3}{4}$ .

2

Derek has the gumballs below in a bag. He will choose 1 gumball from the bag without looking.



| Key |          |
|-----|----------|
| P   | = Pink   |
| B   | = Blue   |
| Y   | = Yellow |
| R   | = Red    |
| G   | = Green  |

- What is the probability that Derek will choose a blue gumball?
- What other color of gumball has the same probability of being chosen as blue?

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Mathematics  
Extended Response Item #1

**State Goal 6:** Number Sense

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

**Assessment Objective 6.4.11:** Solve problems involving the value of a collection of bills and coins whose total value is \$100.00 or less, and make change.

1

Arnold wants to spend exactly \$20.00 on sports cards. He wants to buy at least one of each sports card below.

Baseball card



\$2.00 per card

Basketball card



\$5.00 per card

Football card



\$3.00 per card

**Prices include tax**

List one combination of sports cards Arnold can buy using exactly \$20.00.

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