

2007 ISAT Grade 5
Mathematics
Short Response Item #1

State Goal 8: Algebra

Standard 8A: Representations, Patterns, and Expressions

Assessment Objective 8.5.02: Construct and identify a rule that can generate the terms of a given sequence.

1

The first two numbers in a pattern are 1 and 3.

1, 3, __, __, __

- Explain a rule you could use to continue the pattern.
- Use your rule to find the next three numbers in the pattern.

2007 ISAT Grade 5
Mathematics
Short Response Item #2

State Goal 10: Data Analysis, Statistics, and Probability

Standard 10C: Probability

Assessment Objective 10.5.05: Apply the fundamental counting principle in a simple problem (e.g., How many different combinations of one-scoop ice cream cones can be made with 3 flavors and 2 types of cones?).

2

The volleyball team is selling gift sets that include 1 type of soap and 1 type of shampoo. The chart below lists the different types of soap and shampoo available.

Soap	Shampoo
• Bar • Liquid	• Rose • Lilac • Melon • Vanilla

How many different combinations of 1 type of soap and 1 type of shampoo are possible for each gift set?

Show your work.

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Mathematics
Extended Response Item #1

State Goal 6: Number Sense

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

Assessment Objective 6.5.14: Model situations involving addition and subtraction of fractions.

1

Five friends bought a total of 2 pizzas. Each pizza was cut into 12 equal slices. The amount of one whole pizza each person ate is shown below.

Joe: $\frac{1}{2}$

Mary: $\frac{1}{4}$

Kim: $\frac{1}{6}$

Bill: $\frac{1}{3}$

Sue: $\frac{1}{4}$

How many slices of pizza were *not* eaten by these 5 friends?

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