

2006 ISAT Grade 8
Mathematics
Short Response Item #1

State Goal 7: Measurement

Standards 7A, 7B, 7C: Units, Tools, Estimation, and Applications

Assessment Objective 7.8.02: Solve problems involving perimeter/circumference and area of polygons, circles, and composite figures using diagrams, models, and grids or by measuring or using given formulas (may include sketching a figure from its description).

1

Using your centimeter ruler, draw a rectangle with a perimeter of 24 centimeters.
Label the length and width.

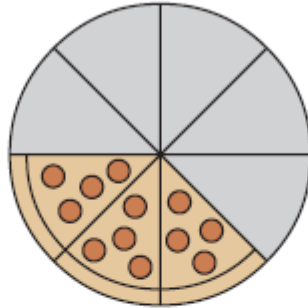
2006 ISAT Grade 8
Mathematics
Short Response Item #2

State Goal 6: Number Sense

Standard 6D: Ratios, Proportions, and Percents

Assessment Objective 6.8.18: Solve number sentences and problems involving fractions, decimals, and percents (e.g., percent increase and decrease, interest rates, tax, discounts, tips).

2



In the pizza shown, five pieces have been eaten.

What fractional part of the pizza was eaten?

Convert this fraction into a percent.

**2006 ISAT Grade 8
Mathematics
Extended Response Item**

State Goal 10: Data Analysis, Statistics, and Probability

Standard 10C: Probability

Assessment Objective 10.8.07: Represent all possible outcomes (sample space) for simple or compound events (e.g., tables, grids, tree diagrams).

1

The Prairie Land Baseball Conference has 6 teams. The team names are listed below.

Aces
Broncos
Cougars
Wildcats
Eagles
Mustangs

How many games must be played so that every team plays each other once?

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