

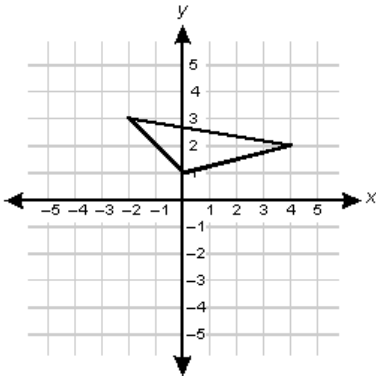
Middle Level Mathematics (Grades 5–8)

Subtest 2 Sample Items

1. A wheel makes 6 complete rotations every minute. How many degrees does the wheel rotate in 3 sec.?

- A. 18°
- B. 108°
- C. 120°
- D. 1080°

2. What is the length of the longest side of the triangle shown below?



- A. $2\sqrt{2}$
- B. $\sqrt{17}$
- C. $2\sqrt{6}$
- D. $\sqrt{37}$

3. The table below shows the weight of each of five different vehicle models produced by an automobile manufacturer.

Model	Weight (pounds)
sports car	2750
two-door sedan	3050
four-door sedan	3200
sport utility	4535
heavy-duty pickup	4535

Which of the following measures of vehicle weight has the lowest value?

- A. mode
- B. mean
- C. median
- D. range

4. If a 6-sided die is rolled twice, what is the probability that the sum of the two rolls will be 8?

- A. $\frac{1}{12}$
- B. $\frac{5}{36}$
- C. $\frac{1}{4}$

D. $\frac{5}{12}$

5. A mathematics teacher plans the student activities listed below as part of a new unit of study.

- comparing new terminology with related terminology from previous units
- developing nonverbal representations (e.g., charts, illustrations) of new terminology
- classifying new terminology according to specific criteria
- generating analogies with new terminology

These activities are likely to promote students' reading comprehension related to this unit primarily in which of the following ways?

- A. by providing the students with strategies for determining the meaning of unfamiliar vocabulary as they read
- B. by broadening the students' understanding of new vocabulary words and their associated concepts
- C. by teaching the students how to use structural analysis as a strategy for building domain-specific vocabulary
- D. by promoting the students' ability to decode and spell new vocabulary words accurately

Answer Key

Item Number	Correct Response	Subarea	Objective
1	B	I. Shape and Space	0009
2	D	I. Shape and Space	0010
3	D	II. Data, Randomness, and Uncertainty	0011
4	B	II. Data, Randomness, and Uncertainty	0012
5	B	III. Discrete Mathematics and Reading	0014

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