

# 2-4 Standardized Test Prep

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## Deductive Reasoning

### Multiple Choice

For Exercises 1–3, choose the correct letter.

1. Which statement is a valid conclusion based on the argument?

If a polygon is a regular pentagon, then the polygon has exactly five congruent angles.

The polygon is a regular pentagon.

- (A) Therefore, the polygon is a rectangle.
- (B) Therefore, the polygon is a regular quadrilateral.
- (C) Therefore, the polygon has exactly five congruent angles.
- (D) Therefore, the polygon has congruent sides.
2. Using the Law of Syllogism, which of the following completes the statement to form a valid conclusion?
- If it is snowing heavily, then school will be canceled.  
If school is canceled, the big test will not be given today.  
It is snowing heavily, therefore
- (F) look out for the snowplows while driving to school.
- (G) the big test will not be given today.
- (H) the roads will be hard to drive on.
- (I) you should call the school to see if school is canceled.
3. Using the Law of Detachment, which statement is a valid conclusion?
- If Jordin has a temperature of  $100^\circ$  or more, then Jordin should stay home from school.  
Jordin has a temperature of  $101^\circ$ .
- (A) Jordin should see the school nurse.
- (B) Jordin should stay home from school.
- (C) Jordin should take his temperature again.
- (D) Jordin has a temperature of  $100^\circ$  or more.

### Short Response

4. Use the Law of Syllogism to make a valid conclusion.

If a blub is screaming, then a frot is swimming.

If a frot is swimming, then a greep is flinging.