

## Mathematics, Grade 6

- 37 Jamey estimates that there are 9 minutes of commercials for every 60 minutes of television that he watches. Based on his estimate, how many minutes **without** commercials would there be in two hours?
- A. 120 minutes
  - B. 138 minutes
  - C. 102 minutes
  - D. 110 minutes

*Reporting Category for Item 37: Number Sense and Operations (p. 253)*

Session 3, Open-Response Questions

Use the ruler and protractor included in your reference sheet and the table below to answer question 38.

A **right** triangle has one right angle.  
An **isosceles** triangle has at least 2 congruent sides.  
An **acute** triangle contains three acute angles.  
An **obtuse** triangle contains one obtuse angle.

- 38 a. Is it possible to draw a right triangle that is isosceles?
- If it is possible, draw such a triangle. Label the parts of the triangle that make it right and isosceles.
  - If it is not possible, explain why it is not possible.
- b. Is it possible to draw an acute triangle that is isosceles?
- If it is possible, draw such a triangle. Label the parts of the triangle that make it acute and isosceles.
  - If it is not possible, explain why it is not possible.
- c. Is it possible to draw a right triangle that is obtuse?
- If it is possible, draw such a triangle. Label the parts of the triangle that make it right and obtuse.
  - If it is not possible, explain why it is not possible.

Reporting Category for Item 38: **Geometry** (p. 255)

## Mathematics, Grade 6

- 39 Jade was invited to participate in a quiz show that has two parts. There are 20 questions in each part.
- In the first part of the quiz show the contestant wins \$50 for each correct answer.
  - In the second part of the quiz show the contestant wins \$100 for each correct answer.
- a. Jade got  $\frac{7}{10}$  of the 20 questions correct in the first part. How much money did she win? Show or explain how you found your answer.
- b. Jade got 40% of the 20 questions correct in the second part. How much money did she win? Show or explain how you found your answer.
- c. What part of the total possible money did Jade win? Show your answer in **two** of these three ways: as a fraction, as a decimal, or as a percent.

*Reporting Category for Item 39: **Number Sense and Operations** (p. 253)*