

Session 1, Short-Answer Questions

- 9 25% of what number is 100?

Reporting Category for Item 9: Number Sense and Operations (p. 285)

- 10 Compute:

$$(-4)^3 =$$

Reporting Category for Item 10: Number Sense and Operations (p. 285)

- 11 What does x equal in the equation below?

$$\frac{3x}{4} - 2 = 7$$

Reporting Category for Item 11: Patterns, Relations, and Algebra (p. 286)

Session 1, Open-Response Question

- 12 An eighth-grade class will perform the first **four** acts in the annual talent show. Every student is in exactly one of the four acts. The order in which the acts will be presented is to be decided by a drawing so that each act has an equal chance of being drawn.
- Chantal is a member of the eighth-grade class. What is the probability that her act will be presented first?
 - Chantal's act was chosen to be presented first. Make a tree diagram, chart, or list showing all the possible orders in which the **other three acts** could be presented. Use the letters A, B, and C to represent these three acts.
 - Rory, Jesse, and Chantal are all members of the eighth-grade class who will each perform an act. What is the probability that Rory's act will immediately follow Jesse's? Explain how you found your answer.

Reporting Category for Item 12: Data Analysis, Statistics, and Probability (p. 288)