

# Problem Solving: Reasonableness

Look back and check. Tell if the answer given is reasonable.  
Explain why or why not.

1. A shipment of 200 games is 20% video games, 50% board games, and 30% puzzles. How many board games are chess if 25% of the board games are chess?

*Answer: The number of chess games is 50.*

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2. A DVD player costs \$199. How much will it cost if it is 15% off?

*Answer: The cost of the DVD player will be \$169.15.*

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3. **Write a Problem** An ad in the newspaper is offering 25% off ski lift tickets at Big Bear. The original tickets cost \$60. Write a problem using the information from the ad. Then give an answer for someone to look back and check for reasonableness.

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4. Students at Warm Springs Middle School are going on a field trip to Orange County. If 60% of the 120 students signed up for the field trip are girls, and 25% of the girls are in sixth grade, how many sixth grade girls are going on the field trip?

**A** 18

**B** 25

**C** 43

**D** 102

5. **Writing to Explain** Bailey paid \$42 for a backpack that was 40% off the original price. Is \$56 a reasonable price for the original cost of the backpack? Explain.

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