

# Problem Solving: Work Backward

Work backward to help you solve each exercise.

1. Jenny is training for a race. On Day 1, she ran 5 miles, which was  $\frac{1}{3}$  the distance she ran on Day 3 and  $\frac{1}{2}$  the distance she ran on Day 2. How many miles did she run over the 3-day period?

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2. In June 1995, a sixth-grade class planted a tree in the scoolyard. The tree grew about 3 inches a year. If the tree was 38 inches high in June 2000, about how high was the tree when it was planted?

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3. Sean is 4 months older than Tony. Heather is 6 months younger than Tony. If Sean's birthday is in April, in which months are Heather's and Tony's birthdays?

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4. Joe made a frozen yogurt shake with 10 ounces of milk and some strawberry frozen yogurt. He used the mixture to fill three 5-ounce glasses and had 2 ounces left over. How much frozen yogurt did he use?

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5. The debate club members sold raffle tickets to raise money for T-shirts. They sold 3 times as many raffle tickets on the weekend as they did during the week. On the weekend, they sold 246 tickets. How many raffle tickets did they sell during the week?

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