

1-8**Skills Practice****7MRI.1, 7NSI.2*****Problem-Solving Investigation: Work Backward*****Use the work backward strategy to solve each problem.**

- 1. SKATEBOARDS** On Monday, David's skateboard shop received its first shipment of skateboards. David sold 12 skateboards that day. On Thursday, he sold 9 skateboards. On Friday, he received a shipment of 30 more skateboards and sold 10 skateboards. He then had a total of 32 skateboards in his shop. How many skateboards were delivered on Monday?
- 2. SHIPPING** An overseas cargo ship was being loaded. At the end of each day, a scale showed the total weight of the ship's cargo. On Monday, 48 tons of cargo were loaded onto the ship. On Tuesday, three times as much cargo was loaded on to the ship as on Monday. On Wednesday, 68 tons of cargo were loaded onto the ship. On Thursday, 0.75 as much cargo was loaded onto the ship as on Wednesday. On Friday, 120 tons of cargo were loaded onto the ship. At the end of the day on Friday, the scale showed that the ship was carrying 690 tons of cargo. How much cargo was the ship carrying when it first came into port on Monday?
- 3. NUMBERS** Jana is thinking of a number. If she divides her number by 12 and then multiplies the quotient by 8, the result is 520. What number is Jana thinking of?
- 4. JOGGING** Edmund is training for a marathon. He ran a certain number of miles on Monday. On Wednesday, he ran 2 more miles than on Monday. On Saturday, he ran twice as far as on Wednesday. On Sunday, he ran 6 miles less than on Saturday. He ran 8 miles on Sunday. How many miles did Edmund run on Monday?

Use the table to solve each problem.

Airline Schedule Minneapolis, MN to Dallas, TX		
Flight Number	Departure Time	Arrival Time
253	8:20 A.M.	10:37 A.M.
142	11:52 A.M.	1:45 P.M.
295	12:00 P.M.	3:30 P.M.

- 5.** Charles needs to take Flight 295. He needs 45 minutes to eat breakfast and pack. It takes 25 minutes to get to the airport. To be at the airport 90 minutes early, what is the latest time he can start eating breakfast?
- 6.** Mrs. Gonzales left her office at 7:25 a.m. She planned that it would take her 30 minutes to get to the airport, but the traffic was so heavy it took an additional 20 minutes. It takes 30 minutes to check her baggage and walk to the boarding gate. What is the first flight she can take to Dallas?