Problem Solving: Use Reasoning
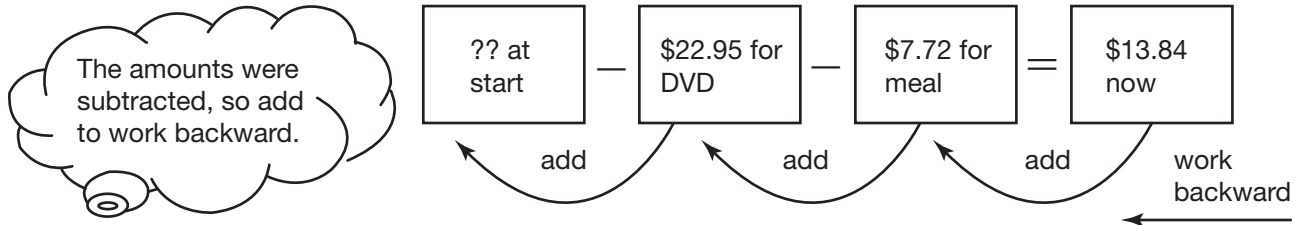
After he bought a meal for $7.72 and a new DVD for $22.95,
Eric had $13.84 in his pocket. How much money did he start with?

You can solve the problem by using reasoning.

The amounts were subtracted, so add to work backward.

| ?? at start | − | $22.95 for DVD | − | $7.72 for meal | = | $13.84 now |

add   add   add   work backward

$13.84 + $7.72 + $22.95 = $44.51
Eric started with $44.51.

---

1. Elana spent 45 minutes at the library, half an hour at the grocery store, 20 minutes visiting a friend, and arrived home at 4:10 P.M. What time did she leave home?

   _____

2. The football team gained 13 yards, lost 5 yards, gained 8 yards, and gained another 11 yards to end on their 47-yard line. At what yard line did they start?

   _____

3. Scott has $82.50 in his checking account after he wrote checks to pay bills for $37.96, $52.00, $12.26, and $97.36. How much was in his checking account before he paid his bills?

   _____

4. Vince helped the Pep Club make sandwiches to raise money. He put two sandwiches in each of 30 bags and 5 sandwiches in 26 family bags, and he has 17 sandwiches left over. How many sandwiches did they make to start with?

   _____

5. Kimo divided a number by 3, subtracted 6, multiplied by 3.6 and added 12 to get 282. What number did he start with?

   _____