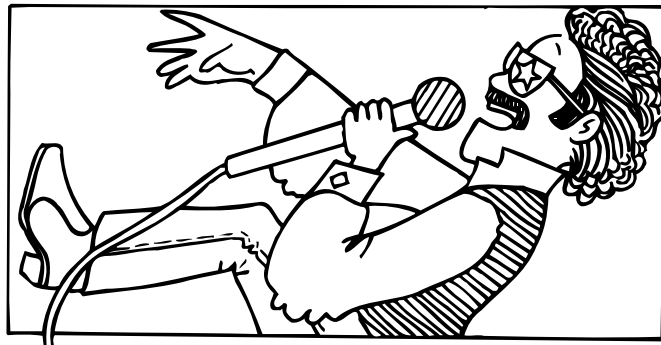


Recognizing Too Little Information

Sometimes a problem doesn't contain enough information to solve it.

The Bugs Band performed 7 new songs during the concert. How many old songs did the band play?

Before you can solve this problem, you need to know how many songs the band played altogether.



Tell what is missing from each problem.

1. Last year, the Bugs recorded 3 albums of songs. How many songs were recorded on all 3 albums?

What is missing? _____

2. A group of friends rode to the concert in several cars. There were 4 people in each car. How many cars did the group take?

What is missing? _____

3. Tanisha bought a ticket for \$36.00. She also paid \$4.50 to park her car and bought a concert program and some CDs. How much did she spend in all?

What is missing? _____

4. The concert started at 8:30. The band played for 50 minutes, took a break, and then played for 50 more minutes. What time was the concert over?

What is missing? _____

5. Inéz bought a souvenir T-shirt during the break. How much change did she get from \$20.00?

What is missing? _____

6. Another concert is in 6 weeks. The cheapest tickets cost \$24.50 each. If Kenzo saves his allowance each week, will he have enough money for a ticket?

What is missing? _____

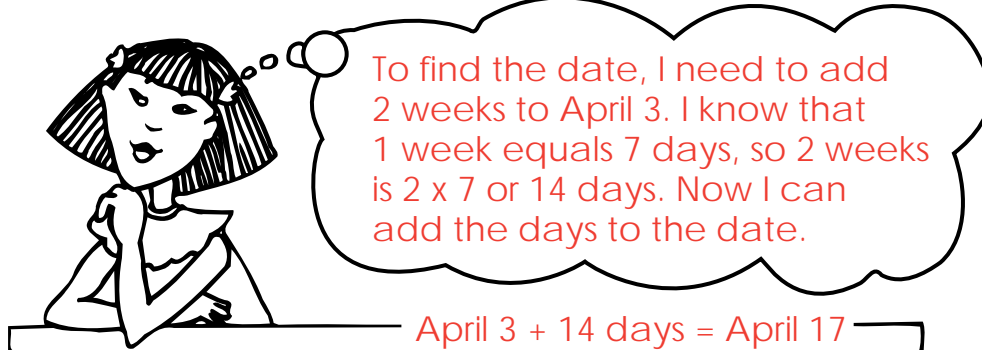
On Your Own

Imagine you are going to a concert by your favorite band. Make a list of your possible expenses. Be sure to include the costs of the ticket, transportation, food, and souvenirs.

Finding Hidden Information

Sometimes information is hidden in a problem. You may have to change it to another form in order to use it.

A special train leaves New York for San Francisco once every 2 weeks. The last train left on April 3. When is the next train scheduled to leave?



Read each problem carefully. Change the hidden information into a form you can use. Then solve the problem.

- | | |
|--|---|
| 1. The ticket seller told Tom that he would have to wait 90 minutes for his train. How many hours is that? | 2. A train leaves the station every half-hour. How many trains leave the station in one day? |
| 3. Ms. Mendoza, the conductor, gets 6 weeks of vacation a year. How many days of vacation does she get? | 4. Every month, 10,000 train schedules are printed. How many schedules are printed in a year? |
| 5. A train tour around the country lasts 3 weeks. The last tour ended July 30. When did it start? | 6. A train makes several stops on a run. They are 30, 15, 20, and 55 minutes apart. How many hours does the run take? |

On Your Own

How many words do you know that contain number ideas? Make a list of them on another sheet of paper. Here are some to get you started: *dozen, twice, foot, quarter.*