

Problem Solving:

Make a Table

Make tables to solve. Write each answer in a complete sentence.

1. A train has 3 engines, 52 boxcars, and 1 caboose. At every stop, it picks up 8 more boxcars. How many total cars (engines, cars, and cabooses) will the train have after 5 stops?

2. Eileen likes to keep scrapbooks. She already has 4 scrapbooks filled with 40 pages each. If she fills 5 pages every month, how many months will it take her to fill up 2 more 40-page scrapbooks?

3. Phil's Garage charges \$50 for towing and \$40 per hour to fix a car. Cliff's Cars charges \$60 for towing and \$38 per hour to fix a car. After how many hours of working on a car will the cost of towing and fixing a car be the same at the two repair shops?

4. Dominic got a new video game. The first time he played the game he scored 80 points. After that, each time he played he increased his score by 60 points. How many times will he have to play before he scores 500 points?

5. A scientist is studying certain germs. She places 3 germs in a special solution that will help the germs grow. The number of germs doubles every hour. How many germs will there be after 8 hours?

A 24

B 384

C 768

D 786

6. **Writing to Explain** Ed saved \$50 one week. For the next 6 weeks, he saved \$25 more than he saved the week before. How much did he save in all? One student solved this problem using the expression $\$50 + 6(\$25) = \$200$. What error was made? What is the correct answer?
