

MY Homework

Lesson 6

Problem Solving: Look for a Pattern

Homework Helper



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At the arcade, Kelly began with 48 tokens. She gave 24 to Kuri. Then she gave 12 to Tonya. If this pattern continues, how many tokens will Kelly give away next?

1

Understand

What facts do you know?

Kelly began with 48 tokens.

She gave away 24 tokens, then 12 tokens.

What do you need to find?

how many tokens Kelly will give away next

2

Plan

I will look for a pattern.

3

Solve

The pattern is 48, 24, 12, . . .

Each number is half as much as the one before it.

The pattern is divide by 2.

$$12 \div 2 = 6$$

So, Kelly will give away 6 tokens next.

4

Check

Does the answer make sense?

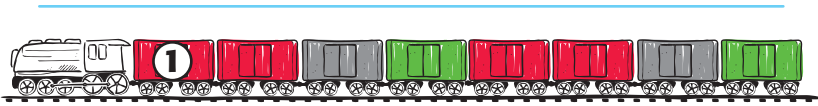
Half of 12 is 6. The answer makes sense.



Problem Solving

Solve each problem by looking for a pattern.

1. Adam is lining up his toy train cars. If he continues this color pattern, what color will the 18th car be?



2. Marissa delivers newspapers on Highview Drive. The first house number is 950, the next is 940, and the third is 930. If the pattern continues, what will the next house number be?

3. Kyle is training for a bike race. He rides 5 miles one day, 10 miles the next day, and 15 miles the third day. If Kyle repeats this schedule, what is the total distance he will have ridden after 5 days?

4. The Hornets basketball team won their first game by 18 points, their second game by 15 points, and their third game by 12 points. If the pattern continues, by how many points will they win their fifth game?

5. Darcy wears brown pants to work one day, blue pants the next day, and a skirt on the third day. If this pattern continues every three days, what will she wear to work on the seventh day?

My Work!