

MY Homework

Lesson 4

Problem Solving: Look for a Pattern

Homework Helper



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Solve the problem by looking for a pattern.

At ShopSmart, customers receive a \$3 coupon if they spend \$20, a \$6 coupon if they spend \$40, and a \$9 coupon if they spend \$60. If a customer spends \$80, how many dollars worth of coupons will he or she receive if the pattern continues?

1 Understand

What facts do you know?

Customers get a \$3 coupon for every \$20 they spend.

What do you need to find?

I need to find how many dollars in coupons a customer gets for spending \$80.

2 Plan

I will find a pattern to solve the problem.

3 Solve

The sequence of the pattern of the coupons is \$3, \$6, and \$9.

The rule for the pattern is +\$3.

Based on the rule, the next term in the sequence is \$12.

So, customers receive a \$12 coupon for spending \$80.

4 Check

Does the answer make sense?

$\$9 + \$3 = \$12$, so the answer makes sense.



Problem Solving

Solve each problem by looking for a pattern.

- Mathematical PRACTICE 1** **Plan Your Solution** Angela opened a new bakery. She got orders for 2 cakes the first week, 4 cakes the second week, and 8 cakes the third week. If the pattern continues, how many cake orders will Angela get the fourth week?
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2. Manuel saw the following birds this week: 2 blue jays on Monday, 5 cardinals on Tuesday, 4 blue jays on Wednesday, 7 cardinals on Thursday, and 6 blue jays on Friday. If the pattern continues, what is the number and type of bird Manuel will see Saturday?
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3. The house numbers on the north side of Flynn Street are even. In one block, the house numbers begin 1022, 1032, 1042, and 1052. What is the number of the next house likely to be?
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4. Jessica is voting for dancers in a contest. She votes for the first contestant 5 times, the second contestant 9 times, and the third contestant 13 times. If she continues this pattern, how many times will Jessica vote for the fourth contestant?
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5. A towel has a repeating pattern of 2 green stripes, then 3 blue stripes, and then 1 yellow stripe. If the towel has 20 stripes altogether, how many blue stripes are on it?
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My Work!