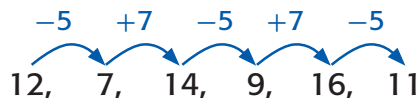# MY Homework

Homework Helper

eHelp

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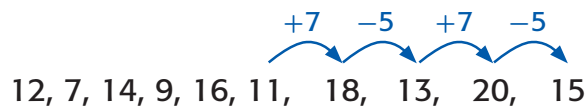**Identify, describe, and extend the pattern.**

12, 7, 14, 9, 16, 11

1 Find the pattern by looking at how the numbers change. To get from 12 to 7, subtract 5. Then, to get from 7 to 14, add 7. See if the rule holds true for the rest of the numbers.

$$-5 \quad +7 \quad -5 \quad +7 \quad -5$$
12,   7,   14,   9,   16,   11

2 The rule "subtract 5, add 7" does hold true. Now extend the pattern.

$$+7 \quad -5 \quad +7 \quad -5$$
12, 7, 14, 9, 16, 11,   18,   13,   20,   15

Practice

Identify, describe, and extend each pattern.

1. 39, 40, 36, 37, 33, 34, **30**

The pattern is **add 1, subtract 4**.

2. 64, 55, 46, 37, 28, 19, **10**

The pattern is **subtract 9**.

3. 53, 49, 52, 48, 51, 47, **50**

The pattern is **subtract 4, add 3**.

Problem Solving

Find a rule and extend each pattern.

4. **Mathematical PRACTICE 2 Use Number Sense** Duane and Mick are saving their money to build a tree house. Duane adds $5 to their piggy bank every other week. Mick adds $2 every week. So far they have saved $45. How many weeks have they been saving their money?

10 weeks

5. Janelle practices basketball every afternoon in her driveway. Each day, her goal is to make 4 more baskets than she made the day before. If she makes 10 baskets the first day and meets her goal for 2 weeks, how many baskets will Janelle make on the 14th day?

62 baskets

6. For every 5 coins Carmen gets, she gives 2 to her brother Frankie. If Carmen has 9 coins, how many does Frankie have?

6 coins

7. Kelli calls her grandmother every month. Every other month, Kelli also calls her cousin. If Kelli calls her cousin in January, how many calls will Kelli have made to her grandmother and her cousin by the end of August?

12 calls

Vocabulary Check

Draw a line to match the word to its example.

8. rule •   • 3, 7, 5, 9, 7, 11, 9

9. numeric pattern •   • add 4, subtract 2

Test Practice

10. Which pattern follows the rule "subtract 3, add 6"?

Ⓐ 18, 15, 21, 18, 24   © 18, 15, 21, 18, 15

Ⓑ 18, 21, 15, 18, 12   Ⓓ 18, 24, 21, 27, 24

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