

Name _____

Apply the Strategy

Solve each problem by looking for a pattern.

Make a wish!



1. Every year, Victoria receives \$30 for her birthday, plus \$2 for each year of her age. Lacey receives \$20 for her birthday and \$4 for each year of her age. In 2013, Victoria is 10, and Lacey is 6. In what year will they both receive the same amount of money?

2. Trent lifts weights 7 days a week. He spends 18 minutes lifting weights on Monday, 29 minutes on Tuesday, 40 minutes on Wednesday, and 51 minutes on Thursday. If this pattern continues, how many minutes will Trent lift weights on Saturday?

3. Find the missing numbers in the table. Then describe the pattern.

Input	Output
5	9
10	19
15	■
20	39
■	49

4. **Mathematical PRACTICE 8** Look for a Pattern Describe the pattern below. Then find the next three numbers.

0.03, 0.3, 3, 30, _____, _____, _____

5. Describe the pattern below. Then find the next two numbers.

784.5, 78.45, 7.845, _____, _____

My Work!

Review the Strategies

Use any strategy to solve each problem.

- Make a table.
- Choose an operation.
- Act it out.
- Draw a picture.

- 6. Mathematical PRACTICE 1 Plan Your Solution** Samuel will arrive at the airport on the first plane after 10 A.M. Airplanes arrive every 50 minutes beginning at 6 A.M. When will Samuel's plane arrive?
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- 7.** On Serena's tenth birthday, her mom was 3 times Serena's age. How old will Serena and her mom be when her mom's age times 0.5 will equal Serena's age?
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- 8.** Mindy read 8 pages of her book the first day, 15 pages the second day, and 22 pages the third day. If the pattern continues, how many pages of her book will she read on the sixth day?
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- 9.** A 1-mile hiking path has signs placed every 240 feet. There are signs placed at the beginning and end of the mile. How many signs are there? (Hint: 1 mile = 5,280 feet)
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- 10.** Jada lives in a city that has an area of 344.6 square miles. Her friend lives in a town that is one-tenth, or 0.1, that size. What is the area of her friend's town?
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- 11.** Dennis has 9.5 weeks to prepare for a bike tour. If he rides 8.2 miles each week, how many miles will he ride before the bike tour?
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My Work!

