

Extend a sequence with a constant multiplier

NAME	DATE	SCORE / 10
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- 1** Write the next two numbers in this pattern.

18, 36, 72, 144, $\square$, $\square$

- 2** In a game, the points for levels 1 to 4 are 2, 10, 50, 250. The points for each level are the points for the level before, multiplied by the same number. How many points are levels 5 and 6 worth?

- 3** Write the next two numbers in this pattern.

2, 6, 18, 54, $\square$, $\square$

- 4** A scientist counts the cells in a dish every hour: 3, 15, 75, 375. Each hour, the number of cells is multiplied by the same number. How many cells will there be in each of the next two hours?

- 5** Write the next two numbers in this pattern.

2, 4, 8, 16, $\square$, $\square$

- 6** In a game, the points for levels 1 to 4 are 1, 3, 9, 27. The points for each level are the points for the level before, multiplied by the same number. How many points are levels 5 and 6 worth?

- 7** Write the next two numbers in this pattern.

25, 50, 100, 200, $\square$, $\square$

- 9** Write the next two numbers in this pattern.

2, 10, 50, 250, $\square$, $\square$

- 8** In a game, the points for levels 1 to 4 are 4, 12, 36, 108. The points for each level are the points for the level before, multiplied by the same number. How many points are levels 5 and 6 worth?

- 10** In a game, the points for levels 1 to 4 are 1, 5, 25, 125. The points for each level are the points for the level before, multiplied by the same number. How many points are levels 5 and 6 worth?

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1 288, 576

3 162, 486

5 32, 64

7 400, 800

9 1250, 6250

2 1250, 6250

4 1875, 9375

6 81, 243

8 324, 972

10 625, 3125