

Extend a sequence with a constant multiplier

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

23, 46, 92, 184, $\square$, $\square$

- 2** A scientist counts the cells in a dish every hour: 22, 44, 88, 176. 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?

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

3, 15, 75, 375, $\square$, $\square$

- 4** In a game, the points for levels 1 to 4 are 1, 4, 16, 64. 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?

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

11, 22, 44, 88, $\square$, $\square$

- 6** In a game, the points for levels 1 to 4 are 2, 8, 32, 128. 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.

1, 5, 25, 125, ,

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

1, 4, 16, 64, ,

- 8** A scientist counts the cells in a dish every hour: 2, 10, 50, 250. 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?

- 10** A scientist counts the cells in a dish every hour: 17, 34, 68, 136. 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?

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1 368, 736

3 1875, 9375

5 176, 352

7 625, 3125

9 256, 1024

2 352, 704

4 256, 1024

6 512, 2048

8 1250, 6250

10 272, 544