

Name: _____

Date: _____

Boom, Clap! Patterns



In math, a **pattern** is a sequence or ordered set of numbers. We can learn a lot about multiplication by finding patterns and using them to help us multiply. For example, when we count by fives, we can see that every number ends in a zero or five. Knowing this pattern can help us multiply by five.

5, 10, 15, 20, 25, 30, (35), 40, 45, 50 $5 \times 7 = 35$

ANSWERS

1. Fill in the missing numbers to complete the pattern. Use a multiplication table if needed.

20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68

Describe the pattern in words. Counting by sixes/multiplying by 6

2. Try counting by fours again, but this time, every time you reach a multiple of 4, write BOOM instead of the number.

1, 2, 3, **BOOM**, 5, 6, 7, BOOM, 9, 10, 11, BOOM, 13, 14, 15, BOOM,

(keep the pattern going) 17, 18, 19, BOOM, 21, 22, 23, BOOM, 25, 26, 27, BOOM, 29, 30, 31, BOOM

3. Fill in the missing numbers to complete the pattern. Use a multiplication table if needed.

18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84

Describe the pattern in words. Counting by sixes/multiplying by 6

4. Try counting by sixes again, but this time, every time you reach a multiple of 6, write CLAP instead of the number.

1, 2, 3, 4, 5, CLAP, (keep the pattern going) 7, 8, 9, 10, 11, CLAP, 13, 14, 15, 16, 17, CLAP,

19, 20, 21, 22, 23, CLAP, 25, 26, 27, 28, 29, CLAP, 31, 32, 33, 34, 35, CLAP, 37, 38, 39, 40, 41, CLAP, 43, 44, 45,

Possible Answers

5. Now, write a pattern with BOOM and CLAP.

1, 2, 3, BOOM, 5, CLAP, 7, BOOM, 9, 10, 11, BOOM-CLAP, 13, 14, 15, BOOM, 17, CLAP, 19, BOOM, 21, 22, 23,

BOOM-CLAP, 25, 26, 27, BOOM, 29, CLAP, 31, BOOM, 33, 34, 35, BOOM-CLAP, 37, 38, 39, BOOM