

Grade 7 Maths Worksheet

Number patterns - finding a term

Questions:

1. Mr Peters has asked his learners to form a sequence using the following rules:

- Use the number 5 as a first term
- To find the next terms, double the previous term and subtract 2

If the second term in this pattern is 8, the 5th term will be....

- (A) 90
- (B) 24
- (C) 46
- (D) 50

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Solution

1.

$T_1 = 5$	$T_2 = 8$	$T_3 = 2(8) - 2 = 14$	$T_4 = 2(14) - 2 = 26$	$T_5 = 2(26) - 2 = 50$	
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So the correct choice is (D).

The relationship is given as a recursive relationship, and learners need to work with these. They often see number pattern as a recursive relationship before they see general number.

Appendix of Assignment Tools

Number pattern