

Number Patterns Check for Understanding

A 10 question retrieval quiz for students in grades 4 and 5.

Grades 4 to 5

Questions

Name:	Class:
Date:	Score:
1 What is the next shape in the pat	ttern?
	Answer
2 What is the next shape in the gro	owing pattern?
2 What is the flext shape in the git	wing pattern:
\tilde{O} \tilde{O} \tilde{O} \tilde{O}	$\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$
	Answer
	<u> </u>

3	What is the next term in the pattern? 2,500, 500, 100, 20 Answer
4	What is the first term in the pattern? , 44, 53, 62, 71, 80
5	Which number does not belong in the sequence? Why? 1, 4, 7, 10, 13, 17, 19 because
6	Sequence A: 0, 4, 8, 12, 16 Sequence B: 0, 8, 16, 24, 32 Describe the relationships between the two sequences

7 Fill in the missing values in the table and identify the rule.

Input	Output
2	10
4	20
	25
8	

Rule:		 _	-	-	 -	 -	-	 -		 -		 -						
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8 Fill in the missing values in the table and identify the rule.

Input	Output
23	9
33	19
45	
	0

Rule:																				
	L_		ı	ı		_	ı					1	ı		ı	ı	ı			٠.

9 The Sanderson Family Farm sells 6 crates of apples and 18 crates of tomatoes to local markets per day. Complete the table and describe the pattern between the crates of apples and the crates of tomatoes.

Day	Crates of Apples	Crates of Apples
1	6	18
2	12	
3		54
4	24	

				Ansv	ver
Pattern:					
Pattern N (rule : +2)	0	2	4	6	
Pattern M (rule : +4)	0	4	8	12	

Write a statement comparing pattern N to pattern M.

10

Answers

Question number	Question	Answers	Standard
1	What is the next shape in the pattern?		4.OA.C.5
2	What is the next shape in the growing pattern?	000000	4.OA.C.5
3	What is the next term in the pattern? 2,500, 500, 100, 20	4	4.0A.C.5
4	What is the first term in the pattern? ?, 44, 53, 62, 71, 80	35	4.OA.C.5
5	Which number does not belong in the sequence? Why? 1, 4, 7, 10, 13, 17, 19	17 does not belong because the sequence alternates odd and even, but 17 is not even. OR The rule is +3, but 13 + 3 is not 17. That term should be 16. *Answers may vary, but should either name the rule of +3 or the pattern of odd/even alternating terms	4.OA.C.5

Question number	Question	Ansv	wers	Standard					
6	Sequence A: 0, 4, 8, 12, 16 Sequence B: 0, 8, 16, 24, 32 Describe the relationships between the two sequences.	half of sequence sequence B which is dou *Answers m but should is B is the dou because +8	Sequence A is always half of sequence B, since sequence A adds 4 each time and sequence B adds 8, which is double. *Answers may vary, but should identify that B is the double of A, because +8 is the double of +4						
7	Fill in the missing values in the table and identify the rule.	2 4 5 8	Output 10 20 25 40	4.0A.C.5					
		Rule: Multip							
8	Fill in the missing values in the table and identify the rule.	Input	Output	4.0A.C.5					
		23	9						
		33	19						
		45	31						
		14	0						
		Rule: Subtra	act 14						

Question number	Question	Answers	Standard
9	The Sanderson Family Farm sells 6 crates of apples and 18 crates of tomatoes to local markets per day. Complete the table and describe the pattern between the crates of apples and the crates of tomatoes.	36 18 72 Pattern: The crates of apples are always 3 times the crates of tomatoes.	5.OA.B.3
10	Write a statement comparing pattern N to pattern M.	Pattern M is always double Pattern N, because +4 is adding 2 times as many as adding +2. *Answers may vary, but should identify that M is the triple of A, because +4 is the double of +2	5.OA.B.3

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