Primary Math Stage 5 - Unit 3 & 4 - Internal assessment

Name:		Class:		Date:	

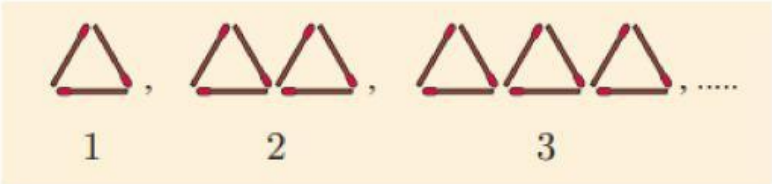
Unit 3 - Numbers and Sequences

3.1 Counting and sequences

1. Write the next number in the sequence and circle the rule: [3pts]

Sequence	Rule
9, 7, 5, _____	-3 -2 -1 +1 +2 +3 x3 x2 x1
5, 10, 20, _____	-3 -2 -1 +1 +2 +3 x2 x4 x1
16.2, 14.2, 12.2, _____	-3 -2 -1 +1 +2 +3 x3 x2 x1

2. Complete the table below based on the sequence: [3pts]



Pattern number	1	2	3	4	5
Number of squares in bottom row.	3	6			

3. Fill in the blanks to complete the sequence.: [2pts]

This sequence counts back in equal steps	_____, _____, 23 , 29 , _____
This sequence counts on in equal steps	_____ , 34 , 41 , _____, _____

4. Answer the questions about the sequence: [2pts]



Pattern 1 Pattern 2 Pattern 3

How many squares are in the 4th pattern:		How many squares are in the 6th pattern:	

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5. Write the common multiple: [2pts]

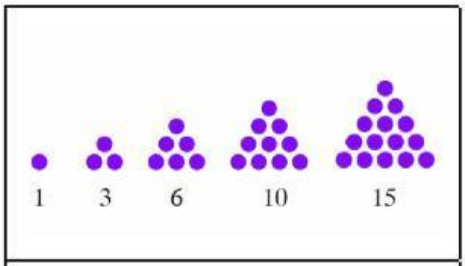
Ryan counts in sixes starting at 6 and Tim counts in fours starting at 4. What is the first number that they both say?	
Tommy counts in sixes from 80 and Sam counts in fives from 80. What is the first number that they both say after 100?	

6. Taylor writes a sequence of five numbers. The first number is 4 and the last number is 24. His rule is to add the same amount each time. Write the missing numbers: [1pt]

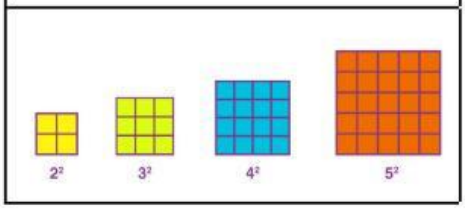
4 , _____, _____, _____, 20

3.2 Square and triangular numbers

7. Label what each diagram represents - a ***square*** *or a* ***triangular*** *number:* [1pt]



*



*

* Square numbers

* Triangular numbers

8. Shade the square numbers in this table square: [1pt]

X	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

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9. Write the value of the squared numbers: [5pts]

4^2	3^2	6^2	5^2	2^2

3.3 Prime and composite numbers

10. Match the words to the definition: [1pt]

Prime numbers	*	*	Numbers that only have 2 factors.
Composite numbers	*	*	Numbers that have more than 2 factors.

11. Circle the prime numbers: [1pt]

19	5	42	36	11	24	51

12. What are the factors of the following numbers: [3pts]

Number:	12	20	32
Factors:			

Unit 4 - Averages

4.1 Mode and median

13. Match the word with the definition [1pt]

Median	*	*	The middle value (number) in a sorted list of numbers.
Mode	*	*	The value (number) that appears the most often.

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14. Write the **mode** of these sets of numbers: [2pts]

Set	Mode:
2, 18, 18, 15, 14, 18, 14	
88, 90, 88, 83, 81, 88, 88, 83	

15. Put the numbers **in order** and write the **median** of each set: [2pts]

Set	Ordered:	Median:
111, 109, 104, 111, 102		
0.4, 0.8, 0.2, 0.5, 0.8, 1, 0.3		

Remember to check your answers!!

Score:	Teacher comment:
/30	

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