

Assessment Task

TI-15 Explorer™: Finding Patterns

AT

Name: _____

1. Find the missing numbers:

a) 5, 8, _____, 14, _____, _____

b) _____, 12, _____, 22, 27, _____, _____, _____

c) _____, 24, 35, _____, _____, 68, _____, _____

2. Adam uses this rule to work out a linear number pattern.

Multiply the ordinal or position number (eg. position meaning the 1st, 2nd, 3rd ... number in the sequence) by 5 and then add 3

The first three numbers of his pattern are 8, 13, 18.

a) What are the 4th and 5th numbers _____

b) What is the 10th number _____

c) What is the 57th number _____

3. If the following numbers were divided by a common divisor and the remainder was 3 what was the divisor?

a) 11, 13, 15 Divisor _____

b) 31, 38, 52 Divisor _____

c) 63, 38, 98 Divisor _____

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4. The following sets of numbers form part of a linear relationship (straight line pattern). Describe the relationship (ie what is the rule). The numbers are not in position or in order.

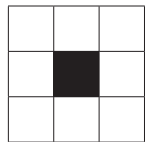
a) 67. 40. 85 Rule: _____

i) Is there more than one rule that will work? Describe another:

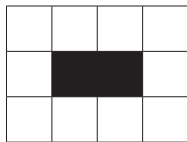
b) 20. 44. 26 Rule: _____

i) Is there more than one rule that will work? Describe another

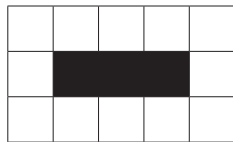
5. Tessa is making garden beds surrounded by pavers.



Bed 1



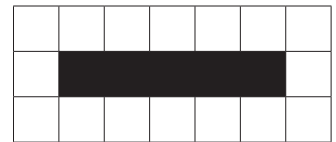
Bed 2



Bed 3



Bed 4



Bed 5

How many pavers would Tessa need to make Bed 4, Bed 6, Bed 10, Bed 25 and bed 250?

To help you solve this:

Complete the table on the right as far as possible and work out a rule.

Describe your rule below. Use your rule to complete the rest of the table.

Garden bed number	Number of pavers
1	8
2	
3	
4	
5	
6	
10	
25	
250	