

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

|       |  |        |  |       |  |
|-------|--|--------|--|-------|--|
| Name: |  | Class: |  | Date: |  |
|-------|--|--------|--|-------|--|

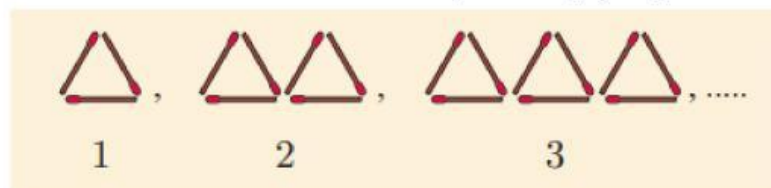
## Unit 3 - Numbers and Sequences

### 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: |  |
|------------------------------------------|--|------------------------------------------|--|

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

5. Write the common multiple: [2pts]

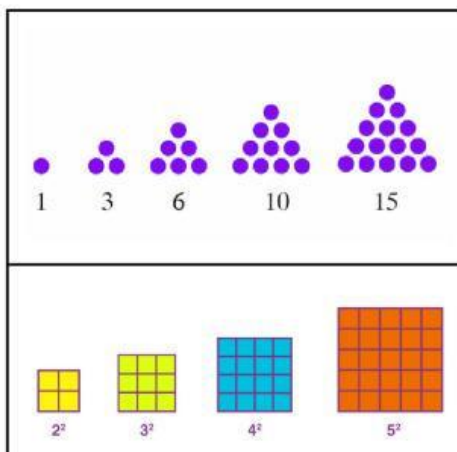
|                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------|--|
| Ryan counts in sixes starting at 6 and Tim counts 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 |

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

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.        |

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

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    |                  |
|        |                  |