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The file: worksheet about Whole numbers and fractions

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Section B Answer **all** questions. (20 marks)

1. Match the number sequences with the correct pattern.

(4 marks)

Number sequences

4,8,12,16,...

1,8,27,64,...

3,7,11,15,...

4,6,8,10,...

Pattern

2n + 2, n=1,2,3,...

4n - 1, n=1,2,3,...

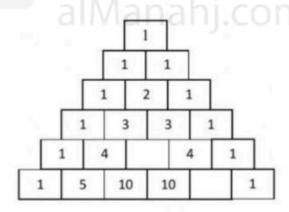
4n, n=1,2,3,...

 n^3 , n=1,2,3,...

2. Complete the following sequence by filling in the blanks.

(4 marks)

a.



- b. 1, ___, 2, 3, 5, ___,
- 3. Mark (/) for the sequence and (x) if not a sequence.

(4 marks)

b. -2, -4, -8, -16, -32,...

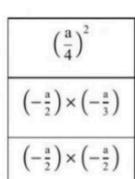
c. $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \dots$

d. 0.04, 0.16, 0.64, 2.56,...



4. Match each of the following algebraic expression with the correct answer.

(4 marks)



$$\left(\frac{a}{3}\right)^2$$

- $\frac{a^2}{4}$
- $-\frac{a^2}{9}$
- $-\frac{a^2}{6}$
- $\frac{a^2}{16}$
- $\frac{a^2}{9}$

FROM

Complete the factorisation using cross multiplication method using the correct method.

(4 marks)

$$2r^2 - 5rs - 3s^2 = (2r + s)$$

