

Grade 8 Revision Session 5 on 4th August 2026



Data Handling

1. The following were the marks (out of 20) obtained by 11 pupils in a geography test:

8; 9; 12; 12; 11; 16; 9; 7; 12; 12; 13

a. Calculate the mean

b. Give the mode

c. Give the median

2. Consider the marks (%) for a maths test given in a stem and leaf diagram:

4		9
5		1 5 6 7 8 9
6		0 2 2 4 4 5 6
7		0 1 6
8		0 4

a. How many learners were there?

b. What was the mode?

c. What was the mean?

d. What was the median?

Probability

1. A jar contains 12 red beads, 5 green beads and 2 yellow beads.

I draw out a bead.

Give the probability that:

- a. The bead is red
- b. The bead is not yellow
- c. The bead is green or yellow
- d. Suppose the bead is red and I remove it. I now draw out another bead. What is the probability that it is red too?

Algebra

1. (a) Given the following expression: $10 + \frac{5x^2 - 3x}{6x} + 3x^4 - \frac{2x^5}{3} + 2x^3$

(1) How many terms are there in the expression?

(2) What is the constant term?

(3) Write down the coefficient of x^5 the term.

(b) If $a = -1$, $b = 2$ and $c = -4$, find the value of the following:

(1) abc

(2) $\frac{-2ac}{2^b}$

2. Simplify the following fully:

(a) $4x - 8y - 3x + 5y$

(b) $2x(x - 3) + 3(x - 2)$

(c) $-4ab^2 \times 3a^2b^3$

(d) $3x^2 - 2xy - 5y^2 + 2xy - y^2$

(e) $-5a^3b^2 \times 2a^4b^2$

(f) $2a \times -3b + 2ab \times 4$

(g) $3a(a-2b) + 9a \times b$

3. Solve for x :

(a) $3x + 7 = -14$

(b) $2 - (2x - 3) = 3(x + 1) - 1$

(c) $5 = \frac{x}{3} + 1$

(d) $\frac{3x-5}{2} = -7$

(e) $2x - 6 = 4$

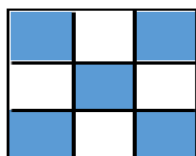
(f) $2 - 3x = 7 - x$

(g) $\frac{x}{3} + 4 = 5$

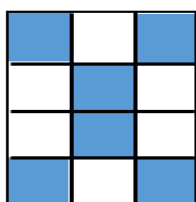
(h) $4(x-1) - 3(x+2) = 0$

(i) $2x = 3x$

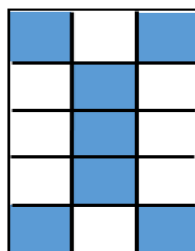
4. Consider the following 3 pictures of a pattern which continues:



Picture 1



Picture 2



Picture 3

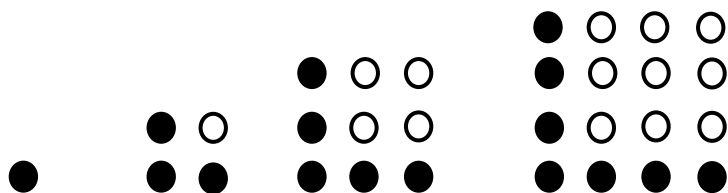
(a) Complete the following table:

Picture	1	2	3	4	10	15
No. of Shaded Tiles						
No. of Unshaded Tiles						
No. of Total Tiles						

(b) Give a rule or a formula describing number of Unshaded tiles in the n^{th} picture?

(c) Which picture has a total of 78 tiles?

5. The pattern below is made up of white and black dots in a square pattern. The black dots when considered on their own make a pattern of triangular numbers.



Complete the table below, including the general expression for pattern number n)

	1	2	3	4	5	10	n
Number of black dots	1	3	5	7			
Total number of dots	1	4	9	16			