



Introduction to Formal Algebra

- 1 The expression $6x + 5y + 12z + 2$ has 4 terms
 - a) List the terms
 - b) What is the constant term
 - c) What is the coefficient of x
 - d) Which letter has a coefficient of 12
- 2 For each of the following expressions state the number of terms
 - a) $12a + 15$
 - b) $31 - 21a + 15b$
 - c) $15a + 4b - \frac{4}{3}ab + 3c$
- 3 For each of the following expressions state the coefficient of a
 - a) $3a + 5$
 - b) $21 - 6b + 5a$
 - c) $a + 3$
- 4 Write an expression for each of the following without using the x or \div symbols
 - a) 3 more than a
 - b) the sum of b and 7
 - c) y subtracted from 4
 - d) n divided by 5
- 5 Write an expression for each of the following without using the x or \div symbols
 - a) 3 is added to a , then the result is doubled
 - b) n is tripled and 3 is added
 - c) b is halved and then 2 is subtracted
 - d) the product of a and b is subtracted from 8

Answers

Question 1

- a) $6x, 57, 12z, 2$
- b) 2
- c) 6
- d) Z

Question 2

- a) 2
- b) 3
- c) 4

Question 3

- a) 3
- b) 5
- c) 1

Question 4

- a) $a + 3$
- b) $b + 7$
- c) $4 - y$
- d) $\frac{n}{5}$

Question 5

- a) $2(a + 3)$
- b) $3n + 3$
- c) $\frac{b}{2} - 2$
- d) $8 - ab$