

Name: _____

ASM Tuition Academy
SIMPLIFYING ALGEBRA

Instructions:

- Use **black** ink or ball-point pen.
- Answer all the questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out**.

Information:

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1. Simplify $3y + 4y - 2y$

(Total for question 1 is 1 mark)

Q2. Simplify $3n + 3n$

(Total for question 2 is 1 mark)

Q3. Simplify $m + m + m$

(Total for question 3 is 1 mark)

Q4.

(a) Simplify $p \times q \times r$

(b) Simplify $5q - 2q$

(c) Simplify $6a/3$

(Total for question 4 is 3 marks)

Q5. Simplify $b + b + 8$

(Total for question 5 is 1 mark)

Q6.

(a) Simplify $4 \times 3y$

(b) Simplify $7b - 3b + 6b$

(Total for question 6 is 2 marks)

Q7. Simplify $8a + 6b - 3a + b$

(Total for question 7 is 2 marks)

Q8.

(a) Simplify $3 \times a \times 9$

(b) Simplify $2y - 3x - 6y - 4x$

(Total for question 8 is 3 marks)

Q9. Simplify $8a + 3b - a + 2b$

(Total for question 9 is 2 marks)

Q10.

(a) Simplify $p + p + p + p + p$

(b) Simplify $5p + 3q + 2p + 2q$

(Total for question 10 is 3 marks)

Q11.

(a) Simplify $2p \times 3q$

(b) Simplify $2q \times 2q$

(c) Simplify $\frac{7a+5a}{4}$

(Total for question 11 is 3 marks)

Q12.

Simplify $11a - 8b + 5a - b$

(Total for question 12 is 2 marks)

Q13.

(a) Simplify $3p \times 4q$

(b) Simplify $3a + 2b + 6a - b$

(Total for question 13 is 3 marks)

Q14.

(a) Simplify $p \times q \times 3$

(b) Simplify $b \times b \times b$

(c) Simplify $10a / a$

(Total for question 14 is 3 marks)

Q15.

(a) Simplify $b \times 2 \times 5$

(b) Simplify $c \times c$

(c) Simplify $\frac{2a+6a}{2}$

(Total for question 15 is 3 marks)

Q16.

(a) Simplify $2p \times 7q$

(b) Simplify $7p + 4q - 3p - 5q$

(Total for question 16 is 3 marks)

Q17.

(a) Simplify $6a - a$

(b) Simplify $7a^2 - 3a + 3a^2 + 6a$

(Total for question 17 is 3 marks)

Q18. Simplify $2 \times s \times 6 \times t$

(Total for question 18 is 1 mark)

Q19.

(a) Simplify $6i \times 5t$

(b) Simplify $7m - 6n + 5m + 4n$

(Total for question 19 is 3 marks)

Q20.

(a) Simplify $4a - 3a + 5a$

(b) Simplify $q^2 + q^2 + q^2$

(c) Simplify $5 + 2p + 7q - 6p + q$

(Total for question 20 is 4 marks)

Q21.

(a) Simplify $p^2 + p^2 + p^2$

(b) Simplify $2pq - 5pq + 4pq$

(c) Simplify $4m + 2 - 7m + m - 6$

(Total for question 21 is 4 marks)

Q22.

(a) Simplify $m + m + m - m$

(b) Simplify $3ab + 2ab - ab$

(c) Simplify $4p + 3q - p + 3q + 6$

(Total for question 22 is 4 marks)