



Scan for the solutions

Name: _____

Date: _____

Score: _____ / 38

1

a. Simplify $x^3 \times x \times x^4$

b. Simplify $x^7 \div x^2$

c. Simplify $(x^2)^3$

(3 marks)

Answer _____

2

a. Write $2^5 \times 2^3$ as a single power of 2.

b. Work out the value of $3^8 \div 3^5$

c. Write $(5^2)^3 \div 5^4$ as a single power of 5.

(3 marks)

Answer _____

3

a. Simplify $t^8 \div t^3$

b. Simplify $(k^4)^5$

c. Simplify $\frac{12x^6y^3}{4x^2y}$

(3 marks)

Answer _____

4

a. Simplify $5a^3 \times 4a^6$ b. Simplify $(2c^4)^3$

(3 marks)

Answer _____

5

a. Simplify $n^{-5} \times n^8$ b. Write down the value of 2^{-3}

(3 marks)

Answer _____

6

a. Simplify $3x^2y \times 4xy^3$ b. Simplify $20p^5q^2 \div 5p^2q$

(4 marks)

Answer _____

7

Find the value of n in each of these.a. $7^n \times 7^4 = 7^{10}$ b. $3^8 \div 3^n = 3^5$

(2 marks)

Answer _____

8

- a. Simplify $(h^5)^2$
b. Simplify $15d^7 \div 3d^2$
c. Expand $3t(2t + 5)$

(4 marks)

Answer _____

9

- a. Simplify $\frac{15a^4b^6}{5a^2b^2}$
b. Simplify $\frac{(3p^2q)^3}{9pq^2}$

(4 marks)

Answer _____

10

- a. Write down the value of 17^0
b. Write down the value of 4^{-2}
c. Simplify $(m^{-3})^4 \times m^{14}$

(4 marks)

Answer _____

11

a. Simplify $(5p^4q)^2$

b. Simplify $24m^8 \div 6m^2$

c. Solve $4x - 7 > 2x + 3$

(5 marks)

Answer

End of questions | Total 38 marks