

Solutions – Index Laws (A)

Simplify $m^4 \times m^9$

m^{13}

Simplify $b^8 \div b^6$

b^2

Simplify $(x^7)^1$

x^7

Simplify $(n^7)^4$

n^{28}

Simplify $a \div a$

1

Simplify $a^6 \times a^4$

a^{10}

Solutions – Index Laws (B)

Simplify $n^9 \div n$

$$n^8$$

Simplify $n^7 \times n^3$

$$n^{10}$$

Simplify $(a)^3$

$$a^3$$

Simplify $(b^4)^1$

$$b^4$$

Simplify $m^8 \times m^7$

$$m^{15}$$

Simplify $n^5 \div n$

$$n^4$$

Solutions – Index Laws (C)

Simplify $(m^8)^3$

$$m^{24}$$

Simplify $a^5 \div a^2$

$$a^3$$

Simplify $x^7 \div x^2$

$$x^5$$

Simplify $(n)^4$

$$n^4$$

Simplify $y^5 \times y^5$

$$y^{10}$$

Simplify $b^9 \times b^4$

$$b^{13}$$

Solutions – Index Laws (D)

Simplify $m^8 \div m^2$

$$m^6$$

Simplify $(m)^3$

$$m^3$$

Simplify $n \times n$

$$n^2$$

Simplify $(n)^3$

$$n^3$$

Simplify $a^6 \times a^6$

$$a^{12}$$

Simplify $n^9 \div n^3$

$$n^6$$

Solutions – Index Laws (E)

Simplify $(n^9)^3$

$$n^{27}$$

Simplify $x^6 \div x^2$

$$x^4$$

Simplify $y^8 \div y^6$

$$y^2$$

Simplify $a^8 \times a^6$

$$a^{14}$$

Simplify $b^7 \times b$

$$b^8$$

Simplify $(m^4)^1$

$$m^4$$

Solutions – Index Laws (F)

Simplify $(a^4)^5$

$$a^{20}$$

Simplify $b^5 \times b^4$

$$b^9$$

Simplify $n^8 \div n^7$

$$n$$

Simplify $(n^8)^2$

$$n^{16}$$

Simplify $x^2 \times x^7$

$$x^9$$

Simplify $m^7 \div m^3$

$$m^4$$

Solutions – Index Laws (G)

Simplify $(a^6)^3$

a^{18}

Simplify $(x^7)^3$

x^{21}

Simplify $n^8 \times n^4$

n^{12}

Simplify $m^2 \times m^7$

m^9

Simplify $y^7 \div y^5$

y^2

Simplify $a^9 \div a$

a^8

Solutions – Index Laws (H)

Simplify $(y^8)^4$

$$y^{32}$$

Simplify $(x^7)^2$

$$x^{14}$$

Simplify $a^9 \div a^8$

$$a$$

Simplify $m^7 \div m^7$

$$1$$

Simplify $x \times x^6$

$$x^7$$

Simplify $y^9 \times y^8$

$$y^{17}$$

Solutions – Index Laws (I)

Simplify $(m^8)^3$

$$m^{24}$$

Simplify $n^8 \div n^2$

$$n^6$$

Simplify $a^2 \times a^5$

$$a^7$$

Simplify $m^9 \div m^2$

$$m^7$$

Simplify $(x^7)^1$

$$x^7$$

Simplify $b^6 \times b$

$$b^7$$

Solutions – Index Laws (J)

Simplify $a^9 \div a^2$

$$a^7$$

Simplify $x^9 \div x$

$$x^8$$

Simplify $(x^9)^2$

$$x^{18}$$

Simplify $(a^7)^3$

$$a^{21}$$

Simplify $m^2 \times m^5$

$$m^7$$

Simplify $a^9 \times a^7$

$$a^{16}$$