



Name : Class :

Multiplication of exponents

Multiply the exponents below. Hint: results shall contain positive values only.

1) $7v^3 \cdot 10u^3v^5 \cdot 8uv^3$

2) $9xy^2 \cdot 9x^5y^2$

3) $6m^3n^3 \cdot 8m^2n^3$

4) $6x^2 \cdot 6x^3y^4$

5) $7u^2v^5 \cdot 9uv^3$

6) $uv \cdot 4uv^5$

7) $10xy^3 \cdot 8x^5y^3$

8) $3u^4v^5 \cdot 7u^2v^3$

9) $(2x^2)^2$

10) $(p^4)^4$

11) $(k^3)^4$

12) $(7k)^2$

13) $(x^2)^3$

14) $(2b^2)^4$

ANSWER SHEET

Multiply the exponents below. Hint: results shall contain positive values only.

$$1) \quad 7v^3 \cdot 10u^3v^5 \cdot 8uv^3$$
$$560v^{11}u^4$$

$$2) \quad 9xy^2 \cdot 9x^5y^2$$
$$81x^6y^4$$

$$3) \quad 6m^3n^3 \cdot 8m^2n^3$$
$$48m^5n^6$$

$$4) \quad 6x^2 \cdot 6x^3y^4$$
$$36x^5y^4$$

$$5) \quad 7u^2v^5 \cdot 9uv^3$$
$$63u^3v^8$$

$$6) \quad uv \cdot 4uv^5$$
$$4u^2v^6$$

$$7) \quad 10xy^3 \cdot 8x^5y^3$$
$$80x^6y^6$$

$$8) \quad 3u^4v^5 \cdot 7u^2v^3$$
$$21u^6v^8$$

$$9) \quad (2x^2)^2$$
$$4x^4$$

$$10) \quad (p^4)^4$$
$$p^{16}$$

$$11) \quad (k^3)^4$$
$$k^{12}$$

$$12) \quad (7k)^2$$
$$49k^2$$

$$13) \quad (x^2)^3$$
$$x^6$$

$$14) \quad (2b^2)^4$$
$$16b^8$$