

# Multiplying Algebraic Expressions

Answer the first question in each row for each of the following questions. If you feel confident then move onto the next question. If you feel like you need more practice then move onto the following questions in that row. The answers are jumbled up at the bottom, cross them off to make sure you are on track!

MUST



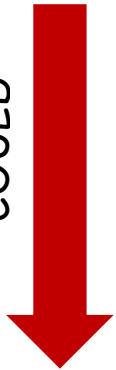
- |                      |                   |                   |                   |
|----------------------|-------------------|-------------------|-------------------|
| 1. a) $2 \times 3t$  | b) $5y \times 3$  | c) $2w \times 4$  | d) $5 \times 4b$  |
| 2. a) $5b \times b$  | b) $2w \times w$  | c) $4p \times p$  | d) $3b \times b$  |
| 3. a) $3t \times 2t$ | b) $5t \times 3t$ | c) $4p \times 2p$ | d) $5b \times 3b$ |

SHOULD



- |                      |                   |                    |                    |
|----------------------|-------------------|--------------------|--------------------|
| 4. a) $5t \times q$  | b) $n \times 6m$  | c) $t \times 2q$   | d) $m \times 2t$   |
| 5. a) $3t \times 2q$ | b) $5h \times 2k$ | c) $3p \times 7r$  | d) $4h \times 3k$  |
| 6. a) $y^2 \times y$ | b) $w \times w^2$ | c) $3m \times m^2$ | d) $4t^2 \times t$ |

COULD



- |                          |                       |                         |                         |
|--------------------------|-----------------------|-------------------------|-------------------------|
| 7. a) $3n \times n^2$    | b) $3n \times 2n^2$   | c) $t^2 \times t^2$     | d) $h^2 \times 2h^2$    |
| 8. a) $3n^2 \times 4n^3$ | b) $3a^4 \times 2a^3$ | c) $k^5 \times 4k^2$    | d) $3k^2 \times 2k^4$   |
| 9. a) $-t^2 \times -t$   | b) $-4d^2 \times -3d$ | c) $-3p^4 \times -5p^2$ | d) $-2c^2 \times -3c^4$ |
| 10. a) $3mp \times p$    | b) $3mn \times 2m$    | c) $4mp \times 2mp$     | d) $5mn \times 3mn$     |

## Answers

|        |        |         |           |            |        |         |        |         |         |
|--------|--------|---------|-----------|------------|--------|---------|--------|---------|---------|
| 15y    | $2w^2$ | $15t^2$ | 6mn       | 10hk       | $w^3$  | $6n^3$  | $6a^7$ | $12d^3$ | $6m^2n$ |
| 20b    | 8w     | 6t      | $3b^2$    | $5b^2$     | $4p^2$ | $15b^2$ | $8p^2$ | $6t^2$  | 5tq     |
| 2qt    | 2mt    | $3mp^2$ | $8m^2p^2$ | $15m^2n^2$ | $6c^6$ | $15p^6$ | $t^3$  | $12n^5$ | $4k^7$  |
| $6k^6$ | $2h^4$ | $t^4$   | $3n^3$    | $4t^3$     | $3m^3$ | $y^3$   | 6qt    | 21pr    | 12hk    |