

Entraînement 1 Simplifie les expressions suivantes en supprimant le signe \times si possible :

| | | |
|---|---|--|
| $8 \times a = \dots\dots\dots$ | $6 \times b = \dots\dots\dots$ | $17 \times c = \dots\dots\dots$ |
| $a \times 4 = \dots\dots\dots \times a = \dots\dots\dots$ | $b \times 7 = \dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$ | $c \times 12 = \dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$ |
| $a \times 3 \times 7 = 3 \times \dots\dots\dots \times a = \dots\dots\dots$ | $5 \times a \times 7 = \dots\dots\dots \times \dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$ | |
| $a \times 3 =$ | $b \times 7 \times 2 =$ | $6 \times c \times 3 =$ |

Simplification d'expressions

$2 \times a = 2a$

$a \times 3 = 3 \times a = 3a$

$4 \times a \times 7 = 28a$

Entraînement 2 Simplifie les expressions suivantes en supprimant le signe \times si possible :

| | | |
|----------------------------------|----------------------------------|---|
| $a \times b =$ | $b \times c =$ | $m \times n =$ |
| $3 \times (m + 2) =$ | $(a + 6) \times 3 =$ | $a \times (b + 3) =$ |
| $a \times b \times 3 =$ | $a \times 6 \times k =$ | $3 \times 2 \times b \times 10 =$ |
| $2 \times a \times 3 \times b =$ | $2 \times a \times b \times 5 =$ | $a \times 7 \times 3 \times c \times 5 =$ |

$a \times b = ab$

$b \times a = a \times b = ab$

Entraînement 3 Simplifie les expressions suivantes en supprimant le signe \times si possible :

| | | |
|-------------------------------------|-----------------------------|-----------------------------|
| $2 \times a + 3 \times b = 2a + 3b$ | $9 \times a + 7 \times b =$ | $a \times 7 + 3 \times b =$ |
| $a \times 5 + b \times 6 =$ | $9 \times m - 8 \times n =$ | $a \times 7 - b \times 9 =$ |
| $9 \times a + 7 \times 2 =$ | $a \times 9 + 2 \times 7 =$ | $7 \times 2 + 9 \times a =$ |

Entraînement 4 Complète les pointillés en utilisant la règle : $k \times (a + b) = k \times a + k \times b$

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|--|---|---|
| $3 \times (a + 2) = 3 \times a + 3 \times 2$ = + | $5 \times (a + 8) = 5 \times \dots\dots\dots + 5 \times \dots\dots\dots$ = + | $6 \times (3 + a) = 6 \times \dots\dots\dots + 6 \times \dots\dots\dots$ = + |
| $7 \times (a + 10) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + | $8 \times (2 + a) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + | $4 \times (a + b) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + |
| $9 \times (a - 1) = \dots\dots \times \dots\dots - \dots\dots \times \dots\dots$ = - | $5 \times (2 - a) = \dots\dots \times \dots\dots - \dots\dots \times \dots\dots$ = - | $3 \times (a - b) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = - |

Entraînement 5 Complète les pointillés en utilisant la règle : $k \times (a + b) = k \times a + k \times b$

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| $3 \times (2a + 5) = 3 \times 2a + 3 \times 5$ = + | $5 \times (3a + 1) = 5 \times \dots\dots\dots + 5 \times \dots\dots\dots$ = + | $6 \times (3 + 2a) = 6 \times \dots\dots\dots + 6 \times \dots\dots\dots$ = + |
| $7 \times (2a + 7) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + | $8 \times (2 + 3a) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + | $4 \times (2a + 3b) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = + |
| $9 \times (2a - 1) = \dots\dots \times \dots\dots - \dots\dots \times \dots\dots$ = - | $5 \times (2 - 3a) = \dots\dots \times \dots\dots - \dots\dots \times \dots\dots$ = - | $3 \times (6a - 5b) = \dots\dots \times \dots\dots + \dots\dots \times \dots\dots$ = - |

