

6

$2 \times 3 = \underline{\quad}$

12

$4 \times 3 = \underline{\quad}$

18

$12 + 6 = \underline{\quad}$

6

$2 + 4 = \underline{\quad}$

18

$6 \times 3 = \underline{\quad}$

yes

Do $2 \times 3 + 4 \times 3$ and 6×3 both equal 18?

21

$3 \times 7 = \underline{\quad}$

35

$5 \times 7 = \underline{\quad}$

56

$21 + 35 = \underline{\quad}$

8

$5 + 3 = \underline{\quad}$

56

$8 \times 7 = \underline{\quad}$

yes

Do $3 \times 7 + 5 \times 7$ and 8×7 both equal 56?

24

$6 \times 4 = \underline{\quad}$

12

$3 \times 4 = \underline{\quad}$

36

$12 + 24 = \underline{\quad}$

9

$6 + 3 = \underline{\quad}$

36

$9 \times 4 = \underline{\quad}$

yes

Do $6 \times 4 + 3 \times 4$ and 9×4 both equal 36?

4

It is simpler to multiply 9×4 than to multiply 6×4 and 3×4 , and then add the products. Therefore we say that we simplify the expression when we change $6 \times 4 + 3 \times 4$ to $9 \times \underline{\quad}$.

2

Simplify the following expressions:

$6 \times 2 + 3 \times 2$

$9 \times \underline{\quad}$

7

$3 \times 5 + 4 \times 5$

$\underline{\quad} \times 5$

10×6

$2 \times 6 + 8 \times 6$

$\underline{\quad} \times \underline{\quad}$

9×7

$4 \times 7 + 5 \times 7$

$\underline{\quad} \times \underline{\quad}$

Simplify the following expressions:

9

$$2 \times 8 + 7 \times 8 \quad \underline{\quad} \times 8$$

2

$$4 \times 2 + 9 \times 2 \quad 13 \times \underline{\quad}$$

7×3

$$5 \times 3 + 2 \times 3 \quad \underline{\quad} \times \underline{\quad}$$

10×7

$$4 \times 7 + 6 \times 7 \quad \underline{\quad} \times \underline{\quad}$$

8×9

$$6 \times 9 + 2 \times 9 \quad \underline{\quad} \times \underline{\quad}$$

17×2

$$14 \times 2 + 3 \times 2 \quad \underline{\quad} \times \underline{\quad}$$

30×4

$$20 \times 4 + 10 \times 4 \quad \underline{\quad} \times \underline{\quad}$$

50×7

$$46 \times 7 + 4 \times 7 \quad \underline{\quad} \times \underline{\quad}$$

11×3

$$2 \times 3 + 5 \times 3 + 4 \times 3 \quad \underline{\quad} \times \underline{\quad}$$

9×9

$$4 \times 9 + 3 \times 9 + 2 \times 9 \quad \underline{\quad} \times \underline{\quad}$$

19×2

$$10 \times 2 + 6 \times 2 + 3 \times 2 \quad \underline{\quad} \times \underline{\quad}$$

Let n stand for a number.

For the product of 2 and n , we do not ordinarily write $2 \times n$. We simply write $2n$.

n

$3n$ means 3 times ____ .

7

$7n$ means ____ times n .

140 times n

$140n$ means _____ times ____ .

Use numerals and the letter a to rewrite the following expressions:

two times a number 2a

three times a number 3a

4a

four times a number _____

6a

six times a number _____

10a

ten times a number _____

19a

nineteen times a number _____

1,000a

one thousand times a number _____