

Two Ways to Multiply

Name: _____

Date: _____

Bigger numbers - solve each problem both ways.

Solve each one twice. Both ways are good ones - which felt faster for you?

1) $4 \times 13 =$ _____

Way A

Double, Then Double Again

double it
____ $\times$ ____ = ____

double it again
____ $\times$ ____ = ____

Way B

Break a Factor Apart

first 10 groups of 4
____ $\times$ ____ = ____

then 3 more groups
____ $\times$ ____ = ____

add the two parts
____ + ____ = ____

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

2) $21 \times 8 =$ _____

Way A

Double, Then Double Again

double it
____ $\times$ ____ = ____

double it again
____ $\times$ ____ = ____

and double once more
____ $\times$ ____ = ____

Way B

Add One More Group

start with 20×8
____ $\times$ ____ = ____

add one more group of 8
____ + ____ = ____

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

3) $4 \times 27 =$ _____

Way A

Double, Then Double Again

double it
____ $\times$ ____ = ____

double it again
____ $\times$ ____ = ____

Way B

Break a Factor Apart

first 20 groups of 4
____ $\times$ ____ = ____

then 7 more groups
____ $\times$ ____ = ____

add the two parts
____ + ____ = ____

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

4) $29 \times 11 =$ _____

Way A

Use Ten, Then Take Away

multiply by 30 instead
____ $\times$ ____ = ____

take away one group of 11
____ - ____ = ____

Way B

The Eleven Trick

add the two digits
____ + ____ = ____

first digit, the sum, last digit
____ + ____ + ____ = ____

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B



Answer Key

Two Ways to Multiply - Bigger numbers

Every step is filled in. Check your work.

Solve each one twice. Both ways are good ones - which felt faster for you?

1) $4 \times 13 = \underline{52}$

Way A

Double, Then Double Again

double it

$$\underline{13} \times \underline{2} = \underline{26}$$

double it again

$$\underline{26} \times \underline{2} = \underline{52}$$

Way B

Break a Factor Apart

first 10 groups of 4

$$\underline{10} \times \underline{4} = \underline{40}$$

then 3 more groups

$$\underline{3} \times \underline{4} = \underline{12}$$

add the two parts

$$\underline{40} + \underline{12} = \underline{52}$$

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

2) $21 \times 8 = \underline{168}$

Way A

Double, Then Double Again

double it

$$\underline{21} \times \underline{2} = \underline{42}$$

double it again

$$\underline{42} \times \underline{2} = \underline{84}$$

and double once more

$$\underline{84} \times \underline{2} = \underline{168}$$

Way B

Add One More Group

start with 20×8

$$\underline{20} \times \underline{8} = \underline{160}$$

add one more group of 8

$$\underline{160} + \underline{8} = \underline{168}$$

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

3) $4 \times 27 = \underline{108}$

Way A

Double, Then Double Again

double it

$$\underline{27} \times \underline{2} = \underline{54}$$

double it again

$$\underline{54} \times \underline{2} = \underline{108}$$

Way B

Break a Factor Apart

first 20 groups of 4

$$\underline{20} \times \underline{4} = \underline{80}$$

then 7 more groups

$$\underline{7} \times \underline{4} = \underline{28}$$

add the two parts

$$\underline{80} + \underline{28} = \underline{108}$$

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

4) $29 \times 11 = \underline{319}$

Way A

Use Ten, Then Take Away

multiply by 30 instead

$$\underline{30} \times \underline{11} = \underline{330}$$

take away one group of 11

$$\underline{330} - \underline{11} = \underline{319}$$

Way B

The Eleven Trick

add the two digits

$$\underline{2} + \underline{9} = \underline{11}$$

first digit, the sum, last digit

$$\underline{200} + \underline{110} + \underline{9} = \underline{319}$$

Both ways give the same answer. Which one felt faster? ☐ Way A ☐ Way B

