

Two Ways to Multiply

Name: _____

Date: _____

Facts to 12×12 - solve each problem both ways.

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

1) $7 \times 12 =$ _____

Way A

Double a Fact You Know

start with 6×7

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

now double it

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

Way B

Break a Factor Apart

first 10 groups of 7

$10 \times \underline{\quad} = \underline{\quad}$

then 2 more groups

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

add the two parts

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

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

2) $12 \times 3 =$ _____

Way A

Double a Fact You Know

start with 6×3

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

now double it

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

Way B

Add One More Group

start with 2×12

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

add one more group of 12

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

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

3) $5 \times 7 =$ _____

Way A

Break a Factor Apart

first 5 groups of 5

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

then 2 more groups

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

add the two parts

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

Way B

Start From a Square

start from the square 5×5

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

add 2 groups of 5

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

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

4) $8 \times 6 =$ _____

Way A

Double, Then Double Again

double it

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

double it again

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

and double once more

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

Way B

Double a Fact You Know

start with 3×8

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

now double it

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

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



Answer Key

Two Ways to Multiply - Facts to 12×12

Every step is filled in. Check your work.

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

1) $7 \times 12 = \underline{84}$

Way A
Double a Fact You Know

start with 6×7

$$6 \times 7 = 42$$

now double it

$$42 + 42 = 84$$

Way B
Break a Factor Apart

first 10 groups of 7

$$10 \times 7 = 70$$

then 2 more groups

$$2 \times 7 = 14$$

add the two parts

$$70 + 14 = 84$$

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

2) $12 \times 3 = \underline{36}$

Way A
Double a Fact You Know

start with 6×3

$$6 \times 3 = 18$$

now double it

$$18 + 18 = 36$$

Way B
Add One More Group

start with 2×12

$$2 \times 12 = 24$$

add one more group of 12

$$24 + 12 = 36$$

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

3) $5 \times 7 = \underline{35}$

Way A
Break a Factor Apart

first 5 groups of 5

$$5 \times 5 = 25$$

then 2 more groups

$$2 \times 5 = 10$$

add the two parts

$$25 + 10 = 35$$

Way B
Start From a Square

start from the square 5×5

$$5 \times 5 = 25$$

add 2 groups of 5

$$25 + 10 = 35$$

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

4) $8 \times 6 = \underline{48}$

Way A
Double, Then Double Again

double it

$$6 \times 2 = 12$$

double it again

$$12 \times 2 = 24$$

and double once more

$$24 \times 2 = 48$$

Way B
Double a Fact You Know

start with 3×8

$$3 \times 8 = 24$$

now double it

$$24 + 24 = 48$$

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

