

Which Way Should I Multiply?

Name: _____

Date: _____

Facts to 12 x 12 - look at the numbers, pick a way, show your steps, then name the way you used.

Ways to choose from: Let the Zeros Ride Along • Use Ten, Then Take Away • The Eleven Trick • Five Is Half of Ten • Halve One, Double the Other • Double, Then Double Again • Double a Fact You Know • Add One More Group • Break a Factor Apart • Start From a Square

1) $12 \times 3 =$ _____

Which way? _____

step 1	step 2
$___ \times ___ = ___$	$___ + ___ = ___$

2) $5 \times 7 =$ _____

Which way? _____

step 1	step 2	step 3
$___ \times ___ = ___$	$___ \times ___ = ___$	$___ + ___ = ___$

3) $3 \times 3 =$ _____

Which way? _____

step 1	step 2
$___ \times ___ = ___$	$___ + ___ = ___$

4) $11 \times 12 =$ _____

Which way? _____

step 1	step 2
$___ + ___ = ___$	$___ + ___ + ___ = ___$

5) $3 \times 10 =$ _____

Which way? _____

Does this one even need steps?

6) $8 \times 5 =$ _____

Which way? _____

step 1	step 2
$___ \times ___ = ___$	$___ \div ___ = ___$

7) $6 \times 4 =$ _____

Which way? _____

step 1	step 2
$___ \times ___ = ___$	$___ \times ___ = ___$

8) $5 \times 9 =$ _____

Which way? _____

step 1	step 2
$___ \times ___ = ___$	$___ - ___ = ___$



Answer Key

Which Way Should I Multiply? - Facts to 12 x 12

The best way for each problem is named, with its steps.

Ways to choose from: Let the Zeros Ride Along • Use Ten, Then Take Away • The Eleven Trick • Five Is Half of Ten • Halve One, Double the Other • Double, Then Double Again • Double a Fact You Know • Add One More Group • Break a Factor Apart • Start From a Square

1) $12 \times 3 = \underline{36}$

Which way? Double a Fact You Know

start with 6×3

$$6 \times 3 = \underline{18}$$

now double it

$$\underline{18} + 18 = \underline{36}$$

also works: Add One More Group, Break a Factor Apart

2) $5 \times 7 = \underline{35}$

Which way? Break a Factor Apart

first 5 groups of 5

$$5 \times 5 = \underline{25}$$

then 2 more groups

$$2 \times 5 = \underline{10}$$

add the two parts

$$\underline{25} + 10 = \underline{35}$$

also works: Start From a Square

3) $3 \times 3 = \underline{9}$

Which way? Add One More Group

start with 2×3

$$2 \times 3 = \underline{6}$$

add one more group of 3

$$\underline{6} + 3 = \underline{9}$$

4) $11 \times 12 = \underline{132}$

Which way? The Eleven Trick

add the two digits

$$1 + 2 = \underline{3}$$

first digit, the sum, last digit

$$100 + 30 + 2 = \underline{132}$$

5) $3 \times 10 = \underline{30}$

Which way? Times ten just adds a zero

No steps needed - this one is just a rule.

6) $8 \times 5 = \underline{40}$

Which way? Five Is Half of Ten

multiply by 10 first

$$10 \times 8 = \underline{80}$$

five is half of ten, so halve it

$$\underline{80} \div 2 = \underline{40}$$

7) $6 \times 4 = \underline{24}$

Which way? Double, Then Double Again

double it

$$6 \times 2 = \underline{12}$$

double it again

$$\underline{12} \times 2 = \underline{24}$$

also works: Double a Fact You Know, Add One More Group

8) $5 \times 9 = \underline{45}$

Which way? Use Ten, Then Take Away

multiply by 10 instead

$$10 \times 5 = \underline{50}$$

take away one group of 5

$$\underline{50} - 5 = \underline{45}$$

