

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) $4 \times 11 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $\times$ ____ = ____

2) $12 \times 11 =$ _____

Which way? _____

step 1

____ $+$ ____ = ____

step 2

____ $+$ ____ $+$ ____ = ____

3) $3 \times 3 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $+$ ____ = ____

4) $7 \times 5 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $\times$ ____ = ____

step 3

____ $+$ ____ = ____

5) $6 \times 12 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $+$ ____ = ____

6) $12 \times 5 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $\div$ ____ = ____

7) $6 \times 9 =$ _____

Which way? _____

step 1

____ $\times$ ____ = ____

step 2

____ $-$ ____ = ____

8) $11 \times 1 =$ _____

Which way? _____

Does this one even need steps?



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) $4 \times 11 = \underline{44}$

Which way? Double, Then Double Again

double it
 $11 \times 2 = \underline{22}$

double it again
 $\underline{22} \times 2 = \underline{44}$

also works: Add One More Group

2) $12 \times 11 = \underline{132}$

Which way? The Eleven Trick

add the two digits
 $1 + 2 = \underline{3}$

first digit, the sum, last digit
 $100 + 30 + 2 = \underline{132}$

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

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

also works: Start From a Square

5) $6 \times 12 = \underline{72}$

Which way? Double a Fact You Know

start with 6×6
 $6 \times 6 = \underline{36}$

now double it
 $\underline{36} + \underline{36} = \underline{72}$

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

6) $12 \times 5 = \underline{60}$

Which way? Five Is Half of Ten

multiply by 10 first
 $10 \times 12 = \underline{120}$

five is half of ten, so halve it
 $\underline{120} \div 2 = \underline{60}$

7) $6 \times 9 = \underline{54}$

Which way? Use Ten, Then Take Away

multiply by 10 instead
 $10 \times 6 = \underline{60}$

take away one group of 6
 $\underline{60} - 6 = \underline{54}$

8) $11 \times 1 = \underline{11}$

Which way? Times one stays the same

No steps needed - this one is just a rule.

