

Break a Factor Apart

Name: _____

Date: _____

Facts to 12 x 12 - work the steps from left to right, then write the answer.

How it works: Break a Factor Apart Split one factor into two easy pieces, multiply each piece, then add.

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

first 5 groups of 6

$5 \times 6 = \underline{30}$

then 3 more groups

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

add the two parts

$\underline{30} + \underline{18} = \underline{48}$

1) $7 \times 5 = \underline{\quad}$

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

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

2) $7 \times 7 = \underline{\quad}$

first 5 groups of 7

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

then 2 more groups

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

add the two parts

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

3) $4 \times 8 = \underline{\quad}$

first 5 groups of 4

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

then 3 more groups

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

add the two parts

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

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

first 5 groups of 4

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

then 1 more groups

$1 \times \underline{\quad} = \underline{\quad}$

add the two parts

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

5) $6 \times 6 = \underline{\quad}$

first 5 groups of 6

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

then 1 more groups

$1 \times \underline{\quad} = \underline{\quad}$

add the two parts

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

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

first 5 groups of 3

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

then 1 more groups

$1 \times \underline{\quad} = \underline{\quad}$

add the two parts

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

7) $12 \times 7 = \underline{\quad}$

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

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

8) $7 \times 6 = \underline{\quad}$

first 5 groups of 6

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

then 2 more groups

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

add the two parts

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



Answer Key

Break a Factor Apart - Facts to 12×12

Every step is filled in. Check your work.

How it works: Break a Factor Apart Split one factor into two easy pieces, multiply each piece, then add.

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

first 5 groups of 6

$$5 \times 6 = \underline{30}$$

then 3 more groups

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

add the two parts

$$\underline{30} + \underline{18} = \underline{48}$$

1) $7 \times 5 = \underline{35}$

first 5 groups of 5

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

then 2 more groups

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

add the two parts

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

2) $7 \times 7 = \underline{49}$

first 5 groups of 7

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

then 2 more groups

$$2 \times \underline{7} = \underline{14}$$

add the two parts

$$\underline{35} + \underline{14} = \underline{49}$$

3) $4 \times 8 = \underline{32}$

first 5 groups of 4

$$5 \times \underline{4} = \underline{20}$$

then 3 more groups

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

add the two parts

$$\underline{20} + \underline{12} = \underline{32}$$

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

first 5 groups of 4

$$5 \times \underline{4} = \underline{20}$$

then 1 more groups

$$1 \times \underline{4} = \underline{4}$$

add the two parts

$$\underline{20} + \underline{4} = \underline{24}$$

5) $6 \times 6 = \underline{36}$

first 5 groups of 6

$$5 \times \underline{6} = \underline{30}$$

then 1 more groups

$$1 \times \underline{6} = \underline{6}$$

add the two parts

$$\underline{30} + \underline{6} = \underline{36}$$

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

first 5 groups of 3

$$5 \times \underline{3} = \underline{15}$$

then 1 more groups

$$1 \times \underline{3} = \underline{3}$$

add the two parts

$$\underline{15} + \underline{3} = \underline{18}$$

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

first 10 groups of 7

$$10 \times \underline{7} = \underline{70}$$

then 2 more groups

$$2 \times \underline{7} = \underline{14}$$

add the two parts

$$\underline{70} + \underline{14} = \underline{84}$$

8) $7 \times 6 = \underline{42}$

first 5 groups of 6

$$5 \times \underline{6} = \underline{30}$$

then 2 more groups

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

add the two parts

$$\underline{30} + \underline{12} = \underline{42}$$

