

Break Apart a Factor

What You Need

- 40 tiles (optional)
- Recording Sheet

✓ Check Understanding

Explain how you can solve 8×4 by breaking apart a factor.

What You Do

1. Take turns. Pick a letter and read the multiplication problem.
2. Choose a factor to break apart and circle it. Think: *Which factor will you break apart? What two numbers will you use?*
3. Write the two new multiplication problems on the **Recording Sheet**. Write their products as an addition problem. Then add to find the answer to each problem.
4. Your partner checks your work, using tiles if it's helpful.
5. Repeat until all the letters are used.

A	8×3
B	9×4
C	7×3
D	4×6
E	5×4
F	3×9

Go Further!

Choose a letter. Work together to write at least two other ways to break apart the multiplication problem and solve it.



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A

$$8 \times 3$$

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

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

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

B

$$9 \times 4$$

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

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

$$9 \times 4 = \underline{\quad}$$

C

$$7 \times 3$$

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

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

$$7 \times 3 = \underline{\quad}$$

D

$$4 \times 6$$

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

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

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

E

$$5 \times 4$$

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

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

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

F

$$3 \times 9$$

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

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

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

If I break apart the greater factor,
I can get two problems that are
easier to solve.

