

Break Apart a Factor

What You Need

- Recording Sheet



Check Understanding

Explain how you can solve 8×6 by breaking apart a factor.

What You Do

1. Take turns. Pick a letter and read the multiplication problem.
2. Decide which factor you want to break apart.
Think: *Which number 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.
5. Repeat until all the letters are used.

A	7×5
B	9×6
C	8×4
D	6×7
E	5×8
F	7×9



Choose a letter. Work together to write as many ways as you can to break apart the multiplication problem and solve.



Break Apart a Factor

A

$$7 \times 5$$

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

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

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

B

$$9 \times 6$$

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

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

$$9 \times 6 = \underline{\quad}$$

C

$$8 \times 4$$

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

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

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

D

$$6 \times 7$$

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

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

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

E

$$5 \times 8$$

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

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

$$5 \times 8 = \underline{\quad}$$

F

$$7 \times 9$$

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

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

$$7 \times 9 = \underline{\quad}$$

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

