Break-apart facts

3RD GRADE MULTIPLICATION · PRACTICE SHEET

7 × 8 = (7 × 5) + (7 × 3). Split one number, keep the other the same, then add the two parts.

A. Split the array. Write the two parts, then add them.

A1



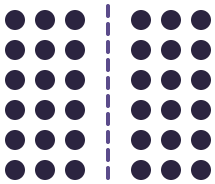
____ × ____ = ____

____ × ____ = ____

____ + ____ = ____

So 4 × 7 = ____

A2



____ × ____ = ____

____ × ____ = ____

____ + ____ = ____

So 6 × 6 = ____

A3



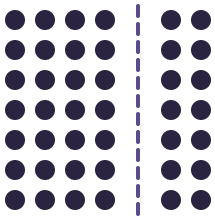
____ × ____ = ____

____ × ____ = ____

____ + ____ = ____

So 3 × 9 = ____

A4



____ × ____ = ____

____ × ____ = ____

____ + ____ = ____

So 7 × 6 = ____

B. Fill in the parts. Fill in each blank.

B1 6 × 8 = (6 × 5) + (6 × ____) = ____ + ____ = ____

B2 9 × 7 = (9 × 5) + (9 × ____) = ____ + ____ = ____

B3 4 × 9 = (4 × 5) + (4 × ____) = ____ + ____ = ____

C. Break it apart your way. Split one number any way you like. Show both parts and the total.

C1 8 × 7

Total: ____

C2 7 × 9

Total: ____

C3 4 × 8

Total: ____

Answer key: Break-apart facts

FOR THE GROWN-UP. EVERY ANSWER HERE WAS COMPUTED BY CODE.

Part C has more than one right answer. Count any split as right if the two parts add up to the total.

A. Split the array.

A1 4 × 5 = 20 and 4 × 2 = 8. 20 + 8 = 28, so 4 × 7 = 28.

A2 6 × 3 = 18 and 6 × 3 = 18. 18 + 18 = 36, so 6 × 6 = 36.

A3 3 × 5 = 15 and 3 × 4 = 12. 15 + 12 = 27, so 3 × 9 = 27.

A4 7 × 4 = 28 and 7 × 2 = 14. 28 + 14 = 42, so 7 × 6 = 42.

B. Fill in the parts.

B1 6 × 8 = (6 × 5) + (6 × 3) = 30 + 18 = 48.

B2 9 × 7 = (9 × 5) + (9 × 2) = 45 + 18 = 63.

B3 4 × 9 = (4 × 5) + (4 × 4) = 20 + 16 = 36.

C. Break it apart your way.

C1 Any split is right if the parts add up to 56. One way: (8 × 5) + (8 × 2) = 40 + 16 = 56.

C2 Any split is right if the parts add up to 63. One way: (7 × 5) + (7 × 4) = 35 + 28 = 63.

C3 Any split is right if the parts add up to 32. One way: (4 × 5) + (4 × 3) = 20 + 12 = 32.

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