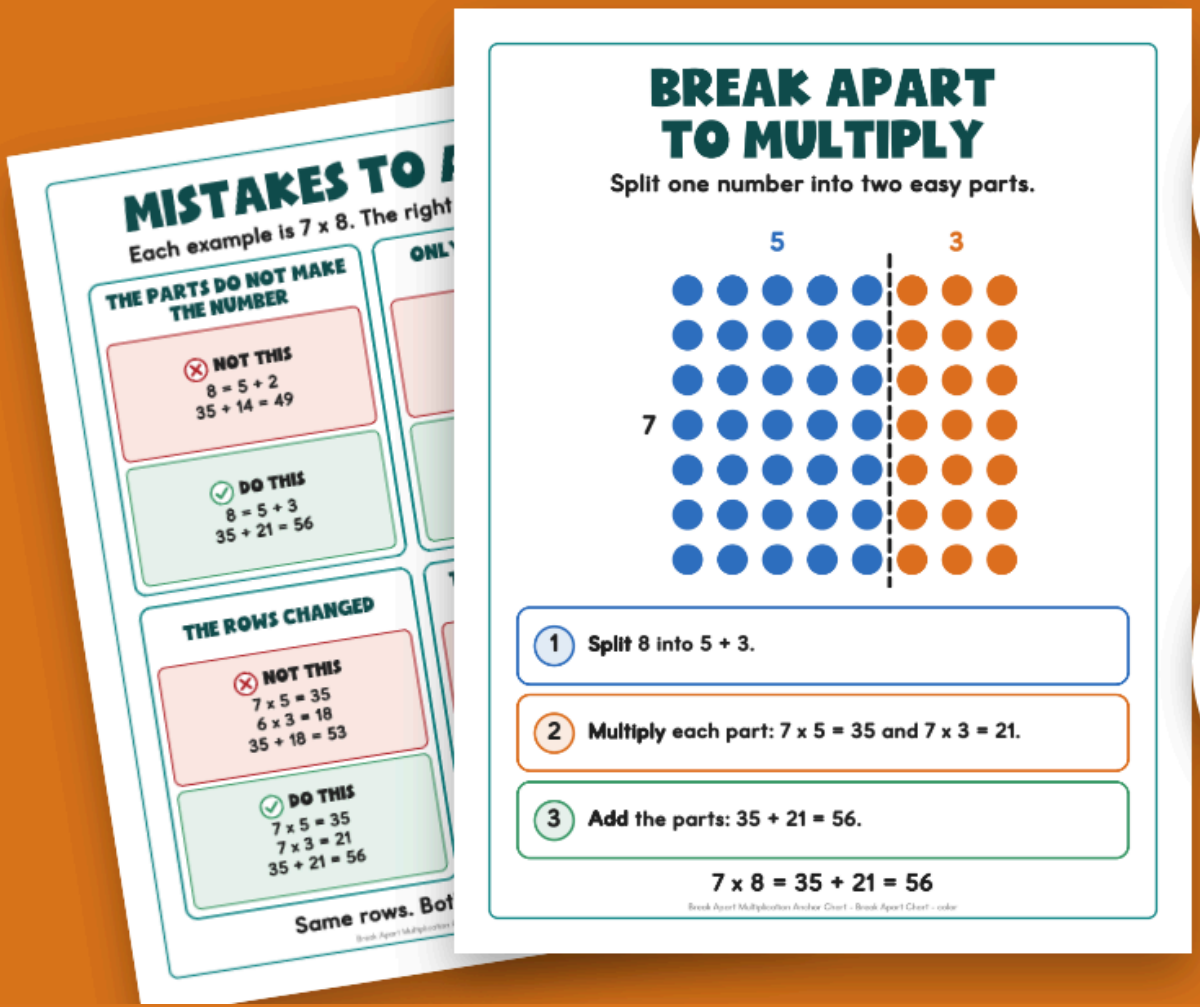
BREAK APART MULTIPLICATION

Anchor Chart Posters & Practice



6 POSTERS

3RD-4TH GRADE

Bright Path Sped

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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, the answer blanks on the practice page and the notes areas are type-in fields. The posters are print pages. You can also print any page and write by hand.
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PREVIEW

How to Teach It: Five Short Routines

Each one takes a few minutes. Draw it, say it, then write it.

1. See it split

- Show the break apart poster (page 5). Point to the dashed line. Say: "7 rows of 8 is the same as 7 rows of 5 and 7 rows of 3."
- Children trace each part with a finger.

2. Multiply each part, then add

- Say the three steps together: split, multiply each part, add. Write 7 x 5 = 35 and 7 x 3 = 21, then 35 + 21 = 56.

3. Pick friendly numbers

- Show friendly numbers (page 11). Ask: "Which easy number can we break at, 5 or 10?"
- Children say why: we can count by fives and tens.

4. Check it

- Show the check poster (page 13). Break the same fact a second way and compare the totals.
- Ask: "Do both ways match? What do we do if they do not?"

5. Fix a mistake

- Show Mistakes to Avoid (page 15). Read one wrong example aloud and let children find what went wrong, then use the practice page (page 20).

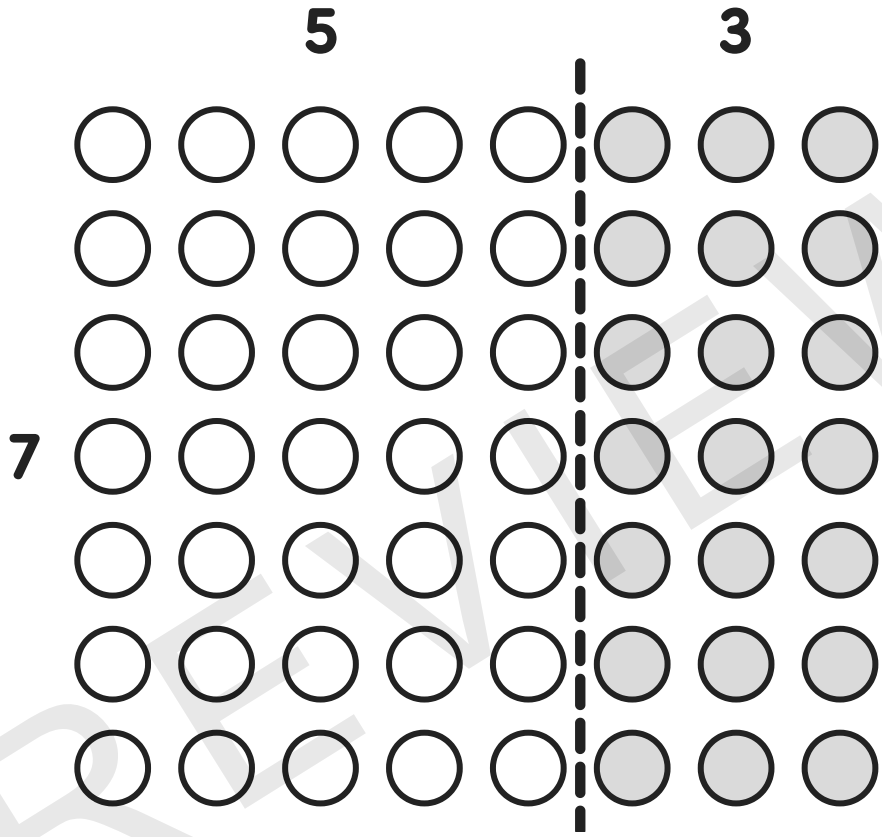
Notes on your day

PREVIEW

Preview · Bright Path Sped

BREAK APART TO MULTIPLY

Split one number into two easy parts.



PREVIEW

1. **Split** 8 into 5 + 3.

2. **Multiply** each part: 7 x 5 = 35 and 7 x 3 = 21.

3. **Add** the parts: 35 + 21 = 56.

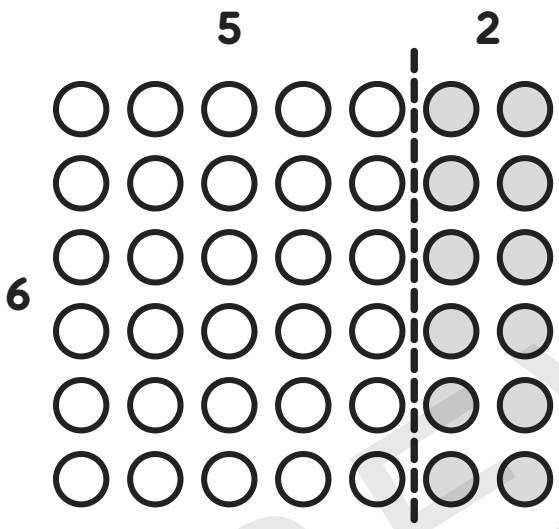
7 x 8 = 35 + 21 = 56

Preview · Bright Path Sped

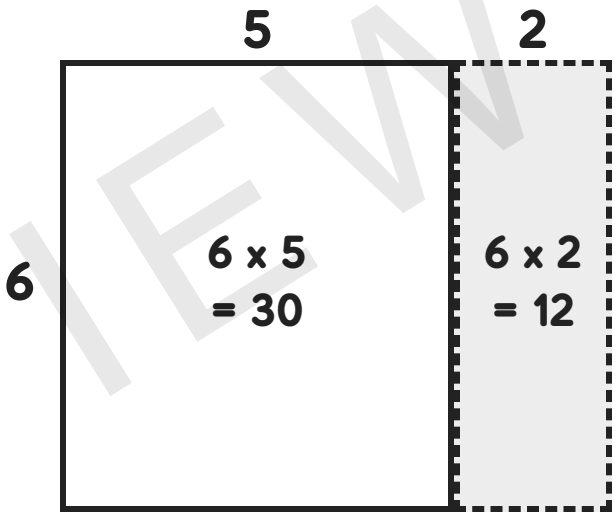
AREA MODEL

An array and an area model show the same split.

ARRAY



AREA MODEL



PREVIEW

1. **Draw** a rectangle. Split the 7 into 5 and 2.

2. **Multiply** in each box: 6 x 5 = 30, 6 x 2 = 12.

3. **Add** the boxes: 30 + 12 = 42.

6 x 7 = 30 + 12 = 42

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TENS AND ONES

Break a teen number into 10 and some ones.

4 X 13

	10	3
4	4 x 10 = 40	4 x 3 = 12

13 = 10 + 3

40 + 12 = 52

TRY ONE: 5 X 14

	10	4
5	5 x 10 = 50	5 x 4 = 20

14 = 10 + 4

50 + 20 = 70

Tens are easy to multiply. Ones are easy too.

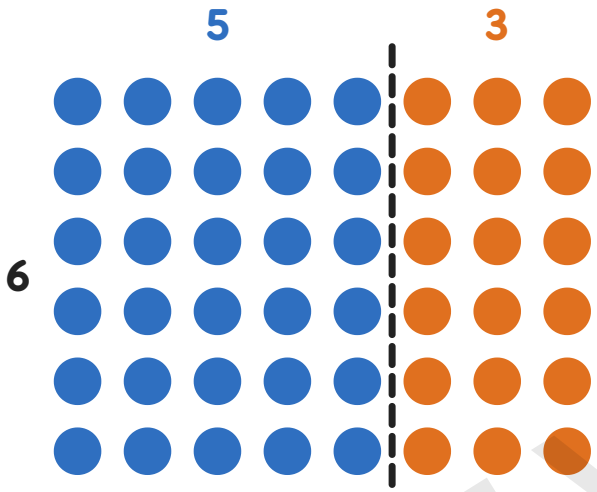
PREVIEW

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CHECK YOUR WORK

Break 6 x 8 two ways. Do the totals match?

WAY 1

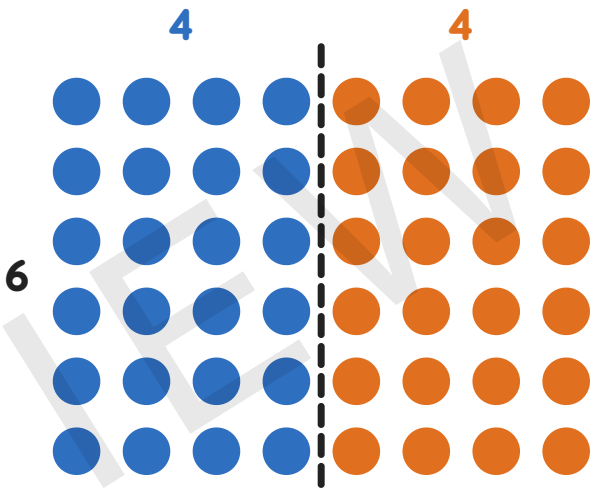


8 = 5 + 3

6 x 5 + 6 x 3

30 + 18 = 48

WAY 2



8 = 4 + 4

6 x 4 + 6 x 4

24 + 24 = 48

1. **Break apart** and add. Way 1 makes 48.
2. **Break** it a second way. Way 2 makes 48.
3. **Compare.** Both are 48, and 6 x 8 = 48.

Different parts, same product.

PREVIEW

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MISTAKES TO AVOID

Each example is 7 x 8. The right answer is 56.

THE PARTS DO NOT MAKE THE NUMBER

NOT THIS

8 = 5 + 2
35 + 14 = 49

DO THIS

8 = 5 + 3
35 + 21 = 56

ONLY ONE PART WAS MULTIPLIED

NOT THIS

7 x 5 + 3
35 + 3 = 38

DO THIS

7 x 5 + 7 x 3
35 + 21 = 56

THE ROWS CHANGED

NOT THIS

7 x 5 = 35
6 x 3 = 18
35 + 18 = 53

DO THIS

7 x 5 = 35
7 x 3 = 21
35 + 21 = 56

THE PARTS WERE NEVER ADDED

NOT THIS

7 x 5 = 35
7 x 3 = 21
Answer: 21

DO THIS

7 x 5 = 35
7 x 3 = 21
35 + 21 = 56

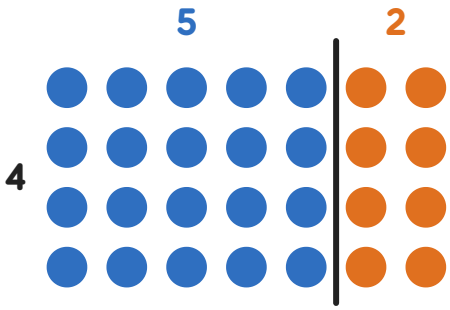
Same rows. Both parts. Then add.

PREVIEW

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Cut the charts apart. Glue one in your notebook.

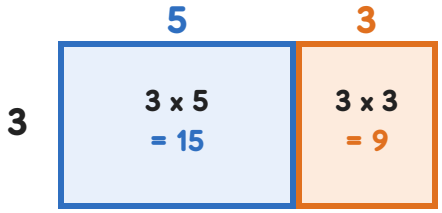
BREAK APART



Split. Multiply each part. Add.

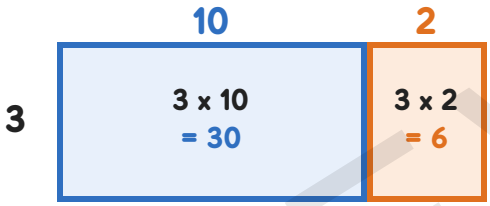
20 + 8 = 28

AREA MODEL



3 x 8 = 15 + 9 = 24

TENS AND ONES



12 = 10 + 2

30 + 6 = 36

FRIENDLY NUMBERS

6 = 5 + 1

7 = 5 + 2

8 = 5 + 3

9 = 5 + 4

12 = 10 + 2

Break at 5 or 10.

CHECK IT

Break it two ways.
Same total.

6 x 8 = 48

WATCH OUT

Parts add to the number.
Same rows in both parts.
Multiply both parts.
Add at the end.

PREVIEW

Preview : Bright Path Sped

Cut the word cards apart. Use them at your desk.

FACTOR

A number you multiply.

$7 \times 8 = 56$

PRODUCT

The answer when you multiply.

$7 \times 8 = 56$

BREAK APART

Split a factor into two easier numbers.

$8 = 5 + 3$

DISTRIBUTIVE PROPERTY

Multiply each part, then add.

$7 \times (5 + 3) =$
$(7 \times 5) + (7 \times 3)$

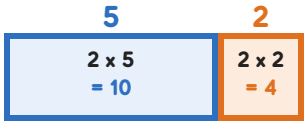
ARRAY

Objects in equal rows and equal columns.



AREA MODEL

A rectangle split into parts. Each part is one smaller fact.



PARTIAL PRODUCT

One of the smaller answers you add at the end.

$7 \times 5 = 35$

FRIENDLY NUMBERS

Numbers like 5 and 10 that are easy to count by.

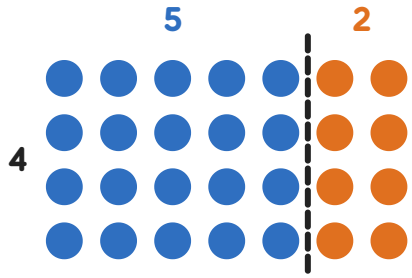
5, 10, 15, 20

PREVIEW

My name _____

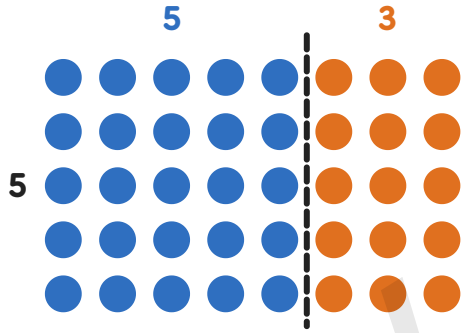
Break apart. Multiply each part. Add.

● Step 1: the line is drawn. Fill in the products.



4 x 5 = ____ 4 x 2 = ____

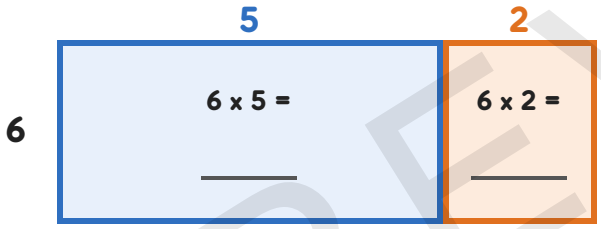
____ + ____ = ____



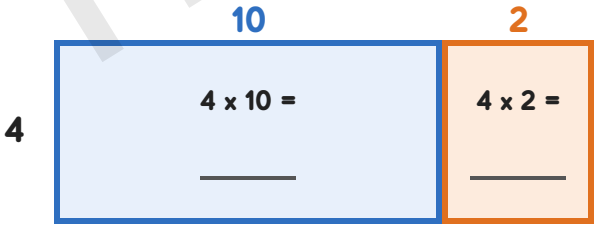
5 x 5 = ____ 5 x 3 = ____

____ + ____ = ____

■ Step 2: the area model is drawn. Fill in the boxes.



____ + ____ = ____



____ + ____ = ____

▲ Step 3: you choose the parts. Then check.

8 X 9

9 = ____ + ____

8 x ____ = ____ 8 x ____ = ____

____ + ____ = ____

Check: 8 x 9 = ____

6 X 13

13 = ____ + ____

6 x ____ = ____ 6 x ____ = ____

____ + ____ = ____

Check: 6 x 13 = ____

PREVIEW