

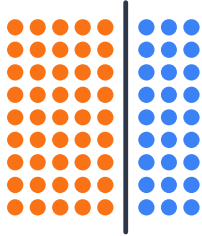
Break Apart to Multiply

The line breaks each array into two facts. Write them and add.

Write the fact for each part. Add the two parts.

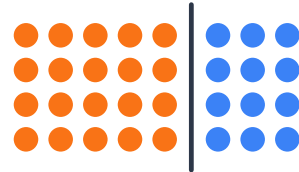
1. 9×8

Example



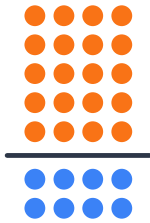
$$\begin{aligned} 9 \times 8 &= 9 \times 5 + 9 \times 3 \\ &= 45 + 27 = 72 \end{aligned}$$

2. 4×8



$$\begin{aligned} 4 \times 8 &= 4 \times \underline{\quad} + 4 \times \underline{\quad} \\ &= \underline{\quad} + \underline{\quad} = \underline{\quad} \end{aligned}$$

3. 7×4



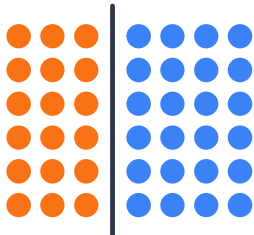
$$\begin{aligned} 7 \times 4 &= \underline{\quad} \times 4 + \underline{\quad} \times 4 \\ &= \underline{\quad} + \underline{\quad} = \underline{\quad} \end{aligned}$$

4. 3×9



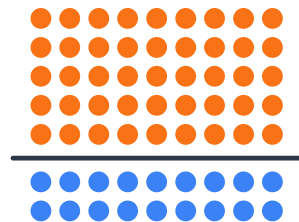
$$\begin{aligned} 3 \times 9 &= 3 \times \underline{\quad} + 3 \times \underline{\quad} \\ &= \underline{\quad} + \underline{\quad} = \underline{\quad} \end{aligned}$$

5. 6×7



$$\begin{aligned} 6 \times 7 &= 6 \times \underline{\quad} + 6 \times \underline{\quad} \\ &= \underline{\quad} + \underline{\quad} = \underline{\quad} \end{aligned}$$

6. 7×9



$$\begin{aligned} 7 \times 9 &= \underline{\quad} \times 9 + \underline{\quad} \times 9 \\ &= \underline{\quad} + \underline{\quad} = \underline{\quad} \end{aligned}$$

Break Apart to Multiply

Draw a line to break each array into two facts. Write them and add.

Draw a line to make the fact it asks for. Then write the facts and add.

1. 4×9 Make a 5s fact.



$$4 \times 9 = 4 \times \underline{5} + 4 \times \underline{4}$$

Example $= \underline{20} + \underline{16} = \underline{36}$

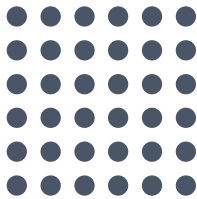
2. 9×6 Make a 2s fact.



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

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

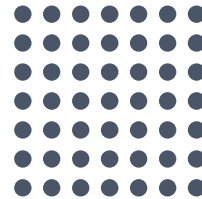
3. 6×6 Make a 2s fact.



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

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

4. 7×7 Make a 5s fact.



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

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

5. 8×3 Make a 2s fact.



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

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

6. 3×8 Make a 5s fact.



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

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

Break Apart to Multiply

Find the area of each part of the rectangle. Add to find the whole.

Write the area inside each part. Then write the fact.

1.

Example



$$6 \times 9 = 30 + 24 = 54$$

2.



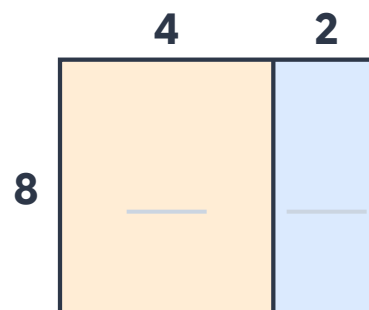
$$4 \times 6 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

3.



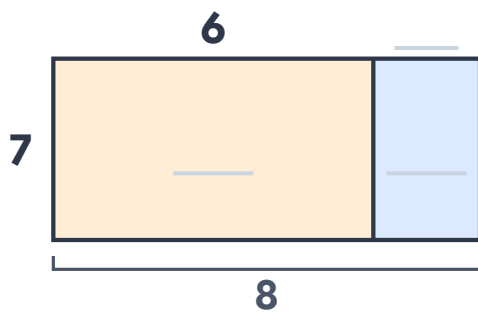
$$3 \times 7 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

4.



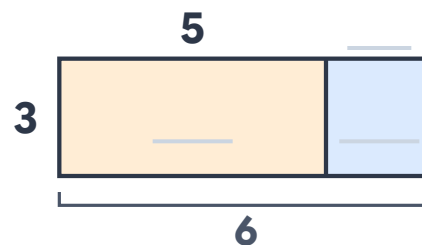
$$8 \times 6 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

5. Find the missing side first.



$$7 \times 8 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

6. Find the missing side first.



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

Break Apart to Multiply

Break apart a fact to find the missing numbers.

Write the missing number.

Example



$$4 \times 9 = 4 \times 6 + 4 \times \underline{3}$$

1. $6 \times 4 = 6 \times \underline{\quad} + 6 \times 1$
2. $9 \times 6 = 7 \times 6 + \underline{\quad} \times 6$
3. $6 \times 7 = 6 \times 6 + \underline{\quad} \times 1$
4. $8 \times 7 = 7 \times 7 + \underline{\quad} \times 7$
5. $7 \times 9 = 7 \times 6 + 7 \times \underline{\quad}$
6. $9 \times 6 = 9 \times 3 + 9 \times \underline{\quad}$
7. $3 \times 6 = \underline{\quad} \times 6 + 1 \times 6$
8. $6 \times 8 = 6 \times 6 + 6 \times \underline{\quad}$
9. $4 \times 3 = 4 \times 2 + \underline{\quad}$
10. $7 \times 3 = 7 \times 2 + 7 \times \underline{\quad}$
11. $\underline{\quad} \times 4 = 7 \times 4 + 2 \times 4$
12. $7 \times 6 = 7 \times 4 + \underline{\quad}$

Circle the one that is the same as the fact.

13. $6 \times 9 =$ $6 \times 6 + 3$ $6 \times 6 + 6 \times 3$ $6 \times 3 + 9$
14. $7 \times 7 =$ $7 \times 4 + 3$ $7 \times 4 + 7 \times 3$ $4 \times 3 + 7$
15. $9 \times 3 =$ $9 \times 2 + 9 \times 1$ $9 \times 2 + 1$ $9 \times 1 + 9 \times 1$
16. $7 \times 9 =$ $6 \times 9 + 1$ $6 \times 9 + 1 \times 9$ $6 \times 9 + 7 \times 1$

Break Apart to Multiply

Break apart each fact to solve. Then decide who is right.

Write the two facts. Add to solve.

1. A garden has 9 rows of 7 carrots. Mia counts 9 rows of 4, then 9 rows of 3. How many carrots?

Example

$$\begin{array}{r} 9 \times 4 + 9 \times 3 \\ = 36 + 27 = 63 \text{ carrots} \end{array}$$

2. A sheet has 8 rows of 7 stickers. Leo cuts it into 8 rows of 4 and 8 rows of 3. How many stickers?

$$\begin{array}{r} _ \times _ + _ \times _ \\ = _ + _ = _ \text{ stickers} \end{array}$$

3. A box has 4 rows of 7 crayons. Ben counts 4 rows of 3, then 4 rows of 4. How many crayons?

$$\begin{array}{r} _ \times _ + _ \times _ \\ = _ + _ = _ \text{ crayons} \end{array}$$

4. A wall has 8 rows of 9 tiles. Ava counts 6 rows of 9, then 2 rows of 9. How many tiles?

$$\begin{array}{r} _ \times _ + _ \times _ \\ = _ + _ = _ \text{ tiles} \end{array}$$

Who is right? Circle the answer. Then write the product.

5. 9×9



Bear $9 \times 9 = 9 \times 5 + 9 \times 4$



Owl $9 \times 9 = 9 \times 5 + 9 \times 3$

Who is right?

Bear Owl Both

$$9 \times 9 = _$$

6. 8×8



Lion $8 \times 8 = 8 \times 5 + 8 \times 3$



Turtle $8 \times 8 = 8 \times 7 + 8 \times 1$

Who is right?

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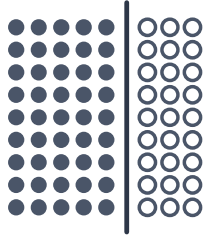
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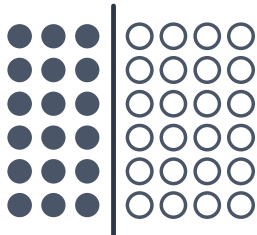
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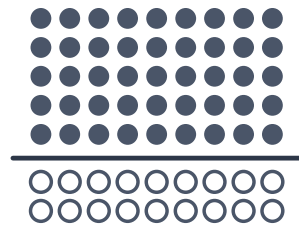
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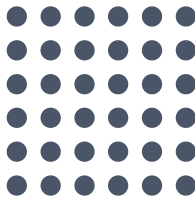
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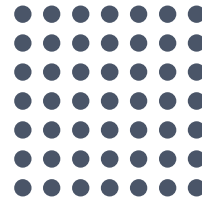
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$$6 \times 9 = 30 + 24 = 54$$

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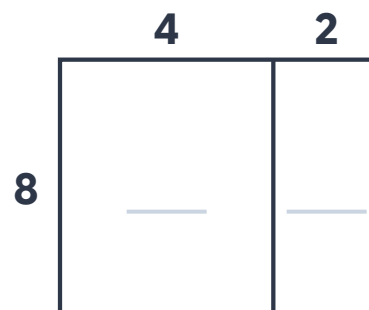
$$4 \times 6 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

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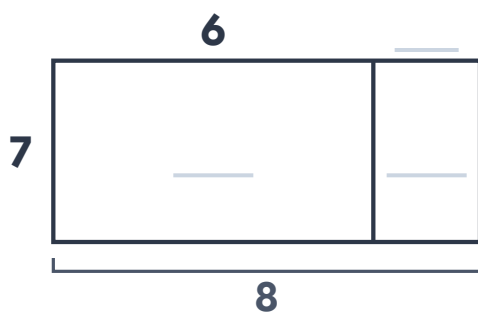
$$3 \times 7 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

4.



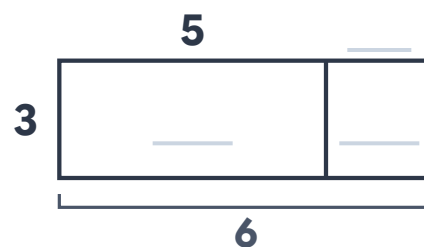
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Example



$$4 \times 9 = 4 \times 6 + 4 \times \underline{3}$$

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7. $3 \times 6 = \underline{\quad} \times 6 + 1 \times 6$
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16. $7 \times 9 =$ $6 \times 9 + 1$ $6 \times 9 + 1 \times 9$ $6 \times 9 + 7 \times 1$

Break Apart to Multiply

Break apart each fact to solve. Then decide who is right.

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Example

$$\begin{array}{r} 9 \times 4 + 9 \times 3 \\ = 36 + 27 = 63 \text{ carrots} \end{array}$$

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5. 9×9



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Who is right?

Bear Owl Both

$$9 \times 9 = _$$

6. 8×8



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Who is right?

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$$8 \times 8 = _$$

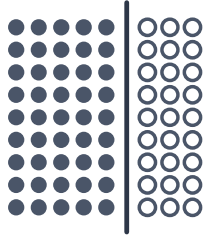
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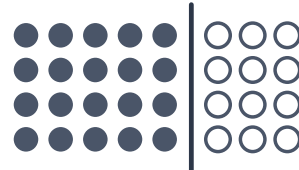
1. 9×8

Example



$$\begin{aligned} 9 \times 8 &= 9 \times 5 + 9 \times 3 \\ &= 45 + 27 = 72 \end{aligned}$$

2. 4×8



$$\begin{aligned} 4 \times 8 &= 4 \times 5 + 4 \times 3 \\ &= 20 + 12 = 32 \end{aligned}$$

3. 7×4



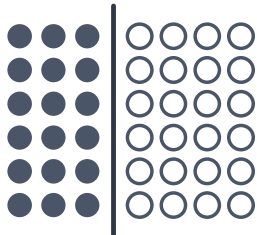
$$\begin{aligned} 7 \times 4 &= 5 \times 4 + 2 \times 4 \\ &= 20 + 8 = 28 \end{aligned}$$

4. 3×9



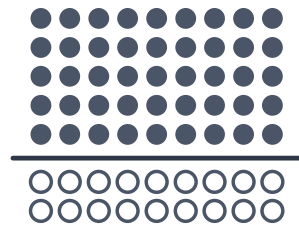
$$\begin{aligned} 3 \times 9 &= 3 \times 5 + 3 \times 4 \\ &= 15 + 12 = 27 \end{aligned}$$

5. 6×7



$$\begin{aligned} 6 \times 7 &= 6 \times 3 + 6 \times 4 \\ &= 18 + 24 = 42 \end{aligned}$$

6. 7×9



$$\begin{aligned} 7 \times 9 &= 5 \times 9 + 2 \times 9 \\ &= 45 + 18 = 63 \end{aligned}$$

Break Apart to Multiply

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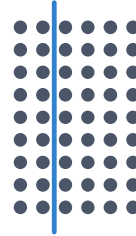
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Example $= \underline{20} + \underline{16} = \underline{36}$

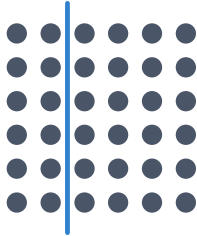
2. 9×6 Make a 2s fact.



$$9 \times 6 = 9 \times \underline{2} + 9 \times \underline{4}$$

$$= \underline{18} + \underline{36} = \underline{54}$$

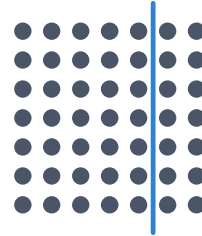
3. 6×6 Make a 2s fact.



$$6 \times 6 = 6 \times \underline{2} + 6 \times \underline{4}$$

$$= \underline{12} + \underline{24} = \underline{36}$$

4. 7×7 Make a 5s fact.



$$7 \times 7 = 7 \times \underline{5} + 7 \times \underline{2}$$

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

5. 8×3 Make a 2s fact.



$$8 \times 3 = 8 \times \underline{2} + 8 \times \underline{1}$$

$$= \underline{16} + \underline{8} = \underline{24}$$

6. 3×8 Make a 5s fact.



$$3 \times 8 = 3 \times \underline{5} + 3 \times \underline{3}$$

$$= \underline{15} + \underline{9} = \underline{24}$$

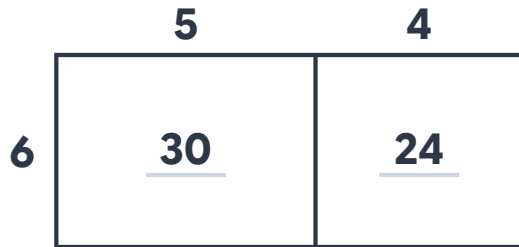
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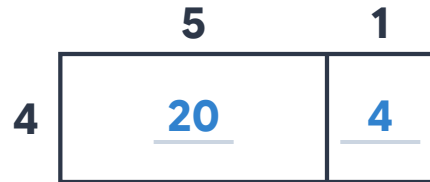
1.

Example



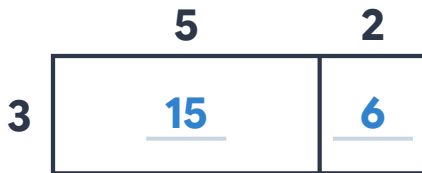
$$6 \times 9 = 30 + 24 = 54$$

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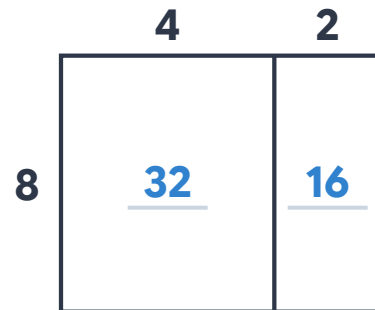
$$4 \times 6 = 20 + 4 = 24$$

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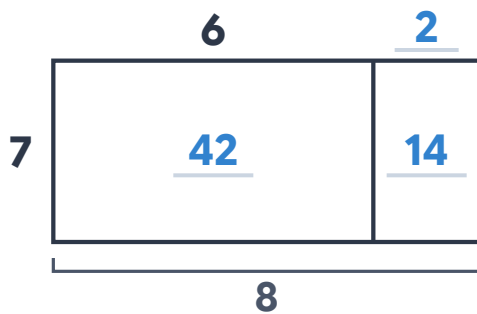
$$3 \times 7 = 15 + 6 = 21$$

4.



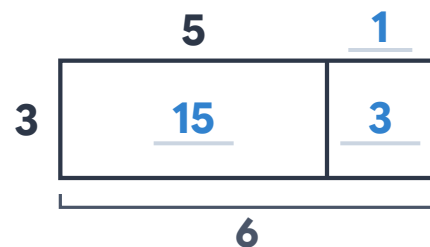
$$8 \times 6 = 32 + 16 = 48$$

5. Find the missing side first.



$$7 \times 8 = 42 + 14 = 56$$

6. Find the missing side first.



$$3 \times 6 = 15 + 3 = 18$$

Break Apart to Multiply

Break apart a fact to find the missing numbers.

Write the missing number.

Example



$$4 \times 9 = 4 \times 6 + 4 \times \underline{3}$$

1. $6 \times 4 = 6 \times \underline{3} + 6 \times 1$

2. $9 \times 6 = 7 \times 6 + \underline{2} \times 6$

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6. $9 \times 6 = 9 \times 3 + 9 \times \underline{3}$

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8. $6 \times 8 = 6 \times 6 + 6 \times \underline{2}$

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Circle the one that is the same as the fact.

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Example

$$\begin{array}{r} \underline{9} \times \underline{4} + \underline{9} \times \underline{3} \\ = \underline{36} + \underline{27} = \underline{63} \text{ carrots} \end{array}$$

2. A sheet has 8 rows of 7 stickers. Leo cuts it into 8 rows of 4 and 8 rows of 3. How many stickers?

$$\begin{array}{r} \underline{8} \times \underline{4} + \underline{8} \times \underline{3} \\ = \underline{32} + \underline{24} = \underline{56} \text{ stickers} \end{array}$$

3. A box has 4 rows of 7 crayons. Ben counts 4 rows of 3, then 4 rows of 4. How many crayons?

$$\begin{array}{r} \underline{4} \times \underline{3} + \underline{4} \times \underline{4} \\ = \underline{12} + \underline{16} = \underline{28} \text{ crayons} \end{array}$$

4. A wall has 8 rows of 9 tiles. Ava counts 6 rows of 9, then 2 rows of 9. How many tiles?

$$\begin{array}{r} \underline{6} \times \underline{9} + \underline{2} \times \underline{9} \\ = \underline{54} + \underline{18} = \underline{72} \text{ tiles} \end{array}$$

Who is right? Circle the answer. Then write the product.

5. 9×9



Bear $9 \times 9 = 9 \times 5 + 9 \times 4$



Owl $9 \times 9 = 9 \times 5 + 9 \times 3$

Who is right?

Bear Owl Both

$$9 \times 9 = \underline{81}$$

6. 8×8



Lion $8 \times 8 = 8 \times 5 + 8 \times 3$



Turtle $8 \times 8 = 8 \times 7 + 8 \times 1$

Who is right?

Lion Turtle **Both**

$$8 \times 8 = \underline{64}$$