

Multiplication Properties

3rd Grade • Math

Level 3 • Challenge: break apart big facts and solve word problems

Name _____

Date _____

Example

Break apart 7×8 into 7×5 and 7×3 .

$7 \times 5 = 35$ · $7 \times 3 = 21$ · $35 + 21 = \mathbf{56}$, so $7 \times 8 = 56$.

1. $6 \times 7 = (6 \times 5) + (6 \times \underline{\quad})$

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

2. $8 \times 6 = (8 \times 5) + (8 \times \underline{\quad})$

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

3. $9 \times 4 = (9 \times 2) + (9 \times \underline{\quad})$

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

4. $7 \times 9 = (7 \times 5) + (7 \times \underline{\quad})$

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

5. $8 \times 8 = (8 \times 5) + (8 \times \underline{\quad})$

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

Word Problems

6. A pumpkin stand has 8 rows of pumpkins with 7 pumpkins in each row. Use the distributive property to find how many pumpkins there are.

7. Rosa packs 4 bags of apples. Each bag has 9 apples. Then she packs 4 more bags of 1 apple each for tasting. How many apples in all?

8. There are 3 hay wagons. Each wagon carries 2 rows of 6 kids. How many kids ride the wagons? Show two ways to group the factors.

Safari Challenge

Mia says $6 \times 8 = (6 \times 4) + (6 \times 4)$. Leo says $6 \times 8 = (6 \times 10) - (6 \times 2)$. Who is right? Prove it.



Multiplication Properties

3rd Grade • Math

Level 3 • Answer Key

1. $6 \times 7 = (6 \times 5) + (6 \times 2) = 30 + 12 = \mathbf{42}$

2. $8 \times 6 = (8 \times 5) + (8 \times 1) = 40 + 8 = \mathbf{48}$

3. $9 \times 4 = (9 \times 2) + (9 \times 2) = 18 + 18 = \mathbf{36}$

4. $7 \times 9 = (7 \times 5) + (7 \times 4) = 35 + 28 = \mathbf{63}$

5. $8 \times 8 = (8 \times 5) + (8 \times 3) = 40 + 24 = \mathbf{64}$

6. $8 \times 7 = (8 \times 5) + (8 \times 2) = 40 + 16 = \mathbf{56 \text{ pumpkins}}$

7. $(4 \times 9) + (4 \times 1) = 36 + 4 = \mathbf{40 \text{ apples}}$ (that is 4×10)

8. $(3 \times 2) \times 6 = 6 \times 6 = 36$, or $3 \times (2 \times 6) = 3 \times 12 = 36 \rightarrow \mathbf{36 \text{ kids}}$

Safari Challenge: Both are right. $24 + 24 = 48$ and $60 - 12 = 48$, and $6 \times 8 = 48$.





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