

Multiplication Properties

3rd Grade • Math

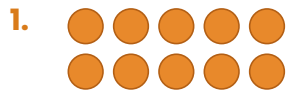
Level 1 • Warm-Up: turn-around facts with pumpkin arrays (commutative property)

Name _____

Date _____

Example

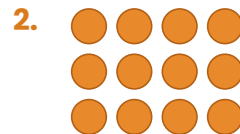
An array has **rows** (across) and **columns** (down). 2 rows of 4 is $2 \times 4 = 8$. Turn it sideways and it is 4 rows of 2: $4 \times 2 = 8$. **Changing the order of the factors does not change the product.**



____ rows of ____

____ $\times$ ____ = ____

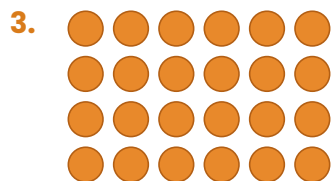
Turn-around: ____ $\times$ ____ = ____



____ rows of ____

____ $\times$ ____ = ____

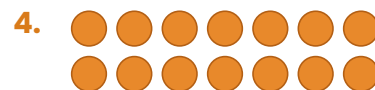
Turn-around: ____ $\times$ ____ = ____



____ rows of ____

____ $\times$ ____ = ____

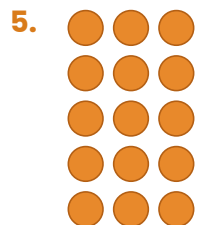
Turn-around: ____ $\times$ ____ = ____



____ rows of ____

____ $\times$ ____ = ____

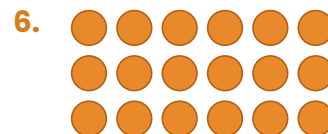
Turn-around: ____ $\times$ ____ = ____



____ rows of ____

____ $\times$ ____ = ____

Turn-around: ____ $\times$ ____ = ____



____ rows of ____

____ $\times$ ____ = ____

Turn-around: ____ $\times$ ____ = ____



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Level 1 • Answer Key

1. 2 rows of 5: $2 \times 5 = 10$ Turn-around: $5 \times 2 = 10$
2. 3 rows of 4: $3 \times 4 = 12$ Turn-around: $4 \times 3 = 12$
3. 4 rows of 6: $4 \times 6 = 24$ Turn-around: $6 \times 4 = 24$
4. 2 rows of 7: $2 \times 7 = 14$ Turn-around: $7 \times 2 = 14$
5. 5 rows of 3: $5 \times 3 = 15$ Turn-around: $3 \times 5 = 15$
6. 3 rows of 6: $3 \times 6 = 18$ Turn-around: $6 \times 3 = 18$





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