

1 Warm-up: Facts You Know

2-min Fluency Warm-up — Facts you already know!

$5 \times 4 = \underline{\quad}$

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

$2 \times 8 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$

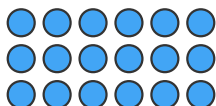
$5 \times 7 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

2 The Turn-Around Trick (Commutative Property)

The Turn-Around Trick! When you flip the numbers, the answer stays the same. $6 \times 3 = 3 \times 6$. Look — it's the same array, just turned!

3 rows of 6



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

6 rows of 3



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

So if you know your 0-5 facts, you ALREADY know most 6-10 facts!

3 Flip It to Solve It

Flip each hard fact into an easy fact you already know, then solve.

$7 \times 2 \rightarrow \text{flip it: } \underline{\quad} \times \underline{\quad}$

Answer: $\underline{\quad}$

$8 \times 5 \rightarrow \text{flip it: } \underline{\quad} \times \underline{\quad}$

Answer: $\underline{\quad}$

$9 \times 3 \rightarrow \text{flip it: } \underline{\quad} \times \underline{\quad}$

Answer: $\underline{\quad}$

$6 \times 4 \rightarrow \text{flip it: } \underline{\quad} \times \underline{\quad}$

Answer: $\underline{\quad}$

4 Number Talk: Why Flipping Works

Number Talk — Explain WITHOUT calculating.

Kim knows $5 \times 8 = 40$ but is stuck on 8×5 .

What would you tell Kim?

My thinking: $\underline{\quad}$

Does the turn-around trick work for

SUBTRACTION? Is $8 - 5$ the same as $5 - 8$?

My thinking: $\underline{\quad}$

5 Challenge: Prove It

Challenge

Draw two arrays that prove $4 \times 7 = 7 \times 4$ in the space below.

Write two more turn-around pairs of your own: _____ and _____