

# Multiplication and Division Fluency Task 2

Sample task from [achievethecore.org](http://www.achievethecore.org)

Task by Karen Fuson, annotation by Student Achievement Partners

GRADE LEVEL Third

IN THE STANDARDS 3.OA.C.7

WHAT WE LIKE ABOUT THIS TASK

Mathematically:

- Part of a carefully considered progression toward fluency and memory with single-digit products (3.OA.C.7)
- Explicitly makes the relationship between multiplication and division clear (3.OA.B.6)
- Connects to the commutative property of multiplication (3.OA.B.5)

In the classroom:

- Allows for both individual and paired work
- Builds fluency in an engaging way
- Represents multiplication and division with a variety of symbols
- Contains blank cards for students to use

MAKING THE SHIFTS<sup>1</sup>

Focus	Belongs to the major work <sup>2</sup> of third grade
Coherence	Develops fluencies that students will rely on in subsequent grades as they multiply and divide multi-digit whole numbers, multiply and divide fractions and decimals, and work with equivalent ratios as preparation for understanding proportional relationships
Rigor <sup>3</sup>	Conceptual Understanding: not targeted in this task
	Procedural Skill and Fluency: primary in this task
	Application: not targeted in this task

For more information read [Shifts for Mathematics](#).

<sup>2</sup>For more information, see Focus in Grade Three in the Supplemental Resources below.

<sup>3</sup>Tasks will often target only one aspect of rigor

ADDITIONAL THOUGHTS

Reaching fluency in single-digit multiplications and related divisions takes time and practice. Students will need many opportunities and varying activities to develop fluency with single-digit multiplication and division. For additional practice, see [Multiplication and Division Fluency Task 1](#).

For more on how students can gain fluency in multiplication and division in grade 3, read pages 25–27 of the progression document, *K Counting and Cardinality; K–5 Operations and Algebraic Thinking* (the section titled “Levels in problem representation and solution”), available on [www.achievethecore.org/progressions](http://www.achievethecore.org/progressions).

For a direct link, go to: <http://www.achievethecore.org/page/890/multiplication-and-division-fluency-task-2>

## ► Play a Game

Play *High Card Wins* with your partner.

### Rules for *High Card Wins*

Number of players: 2

What you will need: Product Cards: 2s, 3s, 4s, 5s, 9s

1. Shuffle the cards. Deal all the cards evenly between the two players.
2. Players put their stacks in front of them, multiplication side up.
3. Each player takes the top card from his or her stack and puts it multiplication side up in the center of the table.
4. Each player says the answer and then turns the card over to check. Then do one of the following:
  - If one player says the wrong answer, the other player takes both cards and puts them at the bottom of his or her pile.
  - If both players say the wrong answer, both players take back their cards and put them at the bottom of their piles.
  - If both players say the correct answer, the player with the higher product takes both cards and puts them at the bottom of his or her pile. If the products are the same, the players set the cards aside and play another round. The winner of the next round takes all the cards.
5. Play continues until one player has all the cards.

$$3 \times 2$$

Hint:  
What is  $2 \times 3$ ?

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$$3 \cdot 3$$

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$$3 * 4$$

Hint:  
What is  $4 * 3$ ?

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$$3 \times 5$$

Hint:  
What is  $5 \times 3$ ?

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$$3 \times 6$$

Hint:  
What is  $6 \times 3$ ?

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$$3 \cdot 7$$

Hint:  
What is  $7 \cdot 3$ ?

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$$3 * 8$$

Hint:  
What is  $8 * 3$ ?

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$$3 \times 9$$

Hint:  
What is  $9 \times 3$ ?

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$$4 \times 2$$

Hint:  
What is  $2 \times 4$ ?

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$$4 \cdot 3$$

Hint:  
What is  $3 \cdot 4$ ?

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$$4 * 4$$

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$$4 \times 5$$

Hint:  
What is  $5 \times 4$ ?

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$$4 \times 6$$

Hint:  
What is  $6 \times 4$ ?

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$$4 \cdot 7$$

Hint:  
What is  $7 \cdot 4$ ?

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$$4 * 8$$

Hint:  
What is  $8 * 4$ ?

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$$4 \times 9$$

Hint:  
What is  $9 \times 4$ ?

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$$3 \overline{)15}$$

Hint: What is  
 $\square \times 3 = 15?$

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$$3 \overline{)12}$$

Hint: What is  
 $\square \times 3 = 12?$

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$$3 \overline{)9}$$

Hint: What is  
 $\square \times 3 = 9?$

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$$3 \overline{)6}$$

Hint: What is  
 $\square \times 3 = 6?$

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$$3 \overline{)27}$$

Hint: What is  
 $\square \times 3 = 27?$

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$$3 \overline{)24}$$

Hint: What is  
 $\square \times 3 = 24?$

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$$3 \overline{)21}$$

Hint: What is  
 $\square \times 3 = 21?$

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$$3 \overline{)18}$$

Hint: What is  
 $\square \times 3 = 18?$

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$$4 \overline{)20}$$

Hint: What is  
 $\square \times 4 = 20?$

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$$4 \overline{)16}$$

Hint: What is  
 $\square \times 4 = 16?$

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$$4 \overline{)12}$$

Hint: What is  
 $\square \times 4 = 12?$

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$$4 \overline{)8}$$

Hint: What is  
 $\square \times 4 = 8?$

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$$4 \overline{)36}$$

Hint: What is  
 $\square \times 4 = 36?$

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$$4 \overline{)32}$$

Hint: What is  
 $\square \times 4 = 32?$

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$$4 \overline{)28}$$

Hint: What is  
 $\square \times 4 = 28?$

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$$4 \overline{)24}$$

Hint: What is  
 $\square \times 4 = 24?$

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$2 \times 2$

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$2 \cdot 3$

Hint:  
What is  $3 \cdot 2$ ?

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$2 * 4$

Hint:  
What is  $4 * 2$ ?

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$2 \times 5$

Hint:  
What is  $5 \times 2$ ?

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$2 \times 6$

Hint:  
What is  $6 \times 2$ ?

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$2 \cdot 7$

Hint:  
What is  $7 \cdot 2$ ?

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$2 * 8$

Hint:  
What is  $8 * 2$ ?

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$2 \times 9$

Hint:  
What is  $9 \times 2$ ?

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$5 \times 2$

Hint:  
What is  $2 \times 5$ ?

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$5 \cdot 3$

Hint:  
What is  $3 \cdot 5$ ?

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$5 * 4$

Hint:  
What is  $4 * 5$ ?

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$5 \times 5$

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$5 \times 6$

Hint:  
What is  $6 \times 5$ ?

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$5 \cdot 7$

Hint:  
What is  $7 \cdot 5$ ?

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$5 * 8$

Hint:  
What is  $8 * 5$ ?

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$5 \times 9$

Hint:  
What is  $9 \times 5$ ?

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$$2 \overline{)10}$$

Hint: What is

$$\square \times 2 = 10?$$

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$$2 \overline{)8}$$

Hint: What is

$$\square \times 2 = 8?$$

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$$2 \overline{)6}$$

Hint: What is

$$\square \times 2 = 6?$$

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$$2 \overline{)4}$$

Hint: What is

$$\square \times 2 = 4?$$

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$$2 \overline{)18}$$

Hint: What is

$$\square \times 2 = 18?$$

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$$2 \overline{)16}$$

Hint: What is

$$\square \times 2 = 16?$$

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$$2 \overline{)14}$$

Hint: What is

$$\square \times 2 = 14?$$

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$$2 \overline{)12}$$

Hint: What is

$$\square \times 2 = 12?$$

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$$5 \overline{)25}$$

Hint: What is

$$\square \times 5 = 25?$$

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$$5 \overline{)20}$$

Hint: What is

$$\square \times 5 = 20?$$

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$$5 \overline{)15}$$

Hint: What is

$$\square \times 5 = 15?$$

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$$5 \overline{)10}$$

Hint: What is

$$\square \times 5 = 10?$$

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$$5 \overline{)45}$$

Hint: What is

$$\square \times 5 = 45?$$

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$$5 \overline{)40}$$

Hint: What is

$$\square \times 5 = 40?$$

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$$5 \overline{)35}$$

Hint: What is

$$\square \times 5 = 35?$$

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$$5 \overline{)30}$$

Hint: What is

$$\square \times 5 = 30?$$

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$9 \times 2$

Hint:  
What is  $2 \times 9$ ?

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$9 \cdot 3$

Hint:  
What is  $3 \cdot 9$ ?

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$9 * 4$

Hint:  
What is  $4 * 9$ ?

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$9 \times 5$

Hint:  
What is  $5 \times 9$ ?

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$9 \times 6$

Hint:  
What is  $6 \times 9$ ?

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$9 \cdot 7$

Hint:  
What is  $7 \cdot 9$ ?

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$9 * 8$

Hint:  
What is  $8 * 9$ ?

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$9 \times 9$

Hint:  
What is  $9 \times 9$ ?

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You can write any numbers on the last 8 cards. Use them to practice difficult problems or if you lose a card.

$$9 \overline{)45}$$

Hint: What is  
 $\square \times 9 = 45?$

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$$9 \overline{)36}$$

Hint: What is  
 $\square \times 9 = 36?$

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$$9 \overline{)27}$$

Hint: What is  
 $\square \times 9 = 27?$

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$$9 \overline{)18}$$

Hint: What is  
 $\square \times 9 = 18?$

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$$9 \overline{)81}$$

Hint: What is  
 $\square \times 9 = 81?$

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$$9 \overline{)72}$$

Hint: What is  
 $\square \times 9 = 72?$

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$$9 \overline{)63}$$

Hint: What is  
 $\square \times 9 = 63?$

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$$9 \overline{)54}$$

Hint: What is  
 $\square \times 9 = 54?$

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$\overline{) \phantom{00}}$

$\overline{) \phantom{00}}$

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