

3.3.21

Multiplication and Division Inverse Calculations

Addition and subtraction are the inverse of each other.

For example

If we know that $1 + 4 = 5$ we also know that $4 + 1 = 5$.

If we know that $1 + 4 = 5$, then we also know that $5 - 1 = 4$ and $5 - 4 = 1$.

Without doing any extra calculations, just by rearranging the digits, we have solved 3 extra calculations.

This is the same when it comes to multiplication and division.

If we know that $3 \times 10 = 30$

We also know that

$$10 \times 3 = 30$$

$$30 \div 10 = 3$$

$$30 \div 3 = 10$$

Use your knowledge of the inverse to solve these calculations.

If we know that $5 \times 10 = 50$ we also know that...

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

If we know that $2 \times 6 = 12$ we also know that...

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

If we know that $7 \times 5 = 35$ we also know that...

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

If we know that $3 \times 5 = 15$ we also know that...

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

If we know that $2 \times 8 = 16$ we also know that...

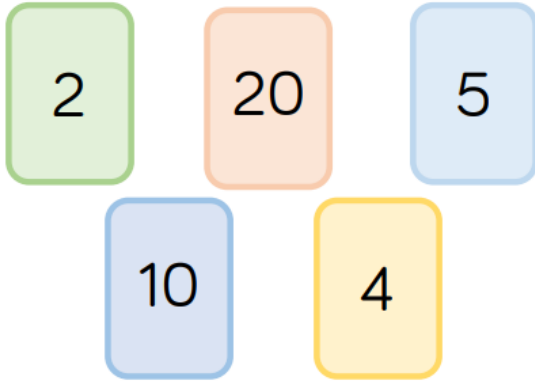
$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Use the number cards to make multiplication and division sentences.

How many can you make?



Write your calculations below.