

Activity 1

Reason from Known Facts

Complete. Make a similar set of calculations using $90 \div 2 = 45$.

$$70 \div \underline{\quad} = 3.5$$

$$\underline{\quad} \times 3.5 = 7$$

$$70 \div \underline{\quad} = 7$$

$$3.5 \times 20 = \underline{\quad}$$

$$\underline{\quad} \div 2 = 35$$

$$70 \div \underline{\quad} = 3.5$$

?

What is the inverse?

Activity 1

Reason from Known Facts

Complete. Make a similar set of calculations using $90 \div 2 = 45$.

$$70 \div \underline{20} = 3.5$$

$$\underline{2} \times 3.5 = 7$$

$$70 \div \underline{10} = 7$$

$$3.5 \times 20 = \underline{70}$$

$$\underline{70} \div 2 = 35$$

$$70 \div \underline{20} = 3.5$$

Activity 2

Reason from Known Facts

$$5,138 \div 14 = 367.$$

Use this to calculate 15×367 .



How can we use division facts to help us answer similar questions?

Activity 2

Reason from Known Facts

$$5,138 \div 14 = 367.$$

Use this to calculate 15×367 .

$$15 \times 367 = 5,505$$

Activity 2

Reason from Known Facts

$$14,896 \div 19 = 784.$$

Use this to calculate 18×784 .



Activity 2

Reason from Known Facts

$$14,896 \div 19 = 784.$$

Use this to calculate 18×784 .

$$18 \times 784 = 14,112$$

Activity 3

Reason from Known Facts

$14 \times 8 = 112$. Use this to calculate:

$$1.4 \times 8$$

$$140 \times 8$$



How can we use multiplication facts to help us answer similar questions?

Activity 3

Reason from Known Facts

$14 \times 8 = 112$. Use this to calculate:

$$1.4 \times 8$$

$$140 \times 8$$

$$1.4 \times 8 = 11.2$$

$$140 \times 8 = 1,120$$

Activity 3

Reason from Known Facts

$21 \times 9 = 189$. Use this to calculate:

$$20 \times 9$$

$$2.1 \times 9 \quad 2,100 \times 9$$



Activity 3

Reason from Known Facts

$21 \times 9 = 189$. Use this to calculate:

$$20 \times 9 \qquad 2.1 \times 9 \qquad 2,100 \times 9$$

$$20 \times 9 = 180$$

$$2.1 \times 9 = 18.9$$

$$2,100 \times 9 = 18,900$$

Reasoning - 2

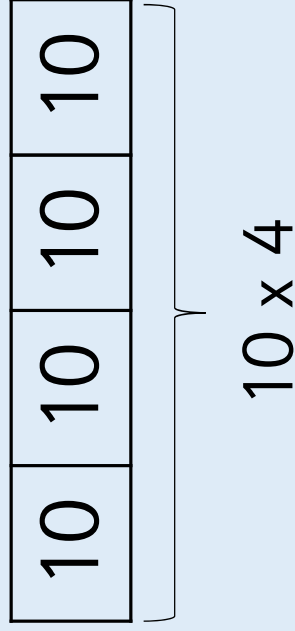
Reason from Known Facts

Which calculations will give an answer that is the same as the product of 24 and 5?

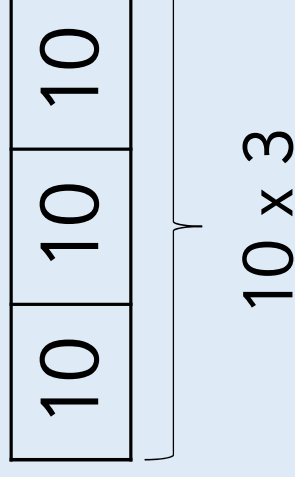
$$3 \times 4 \times 10$$

$$12 \times 10$$

$$2 \times 10 \times 6$$



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Reasoning - 2

Reason from Known Facts

Which calculations will give an answer that is the same as the product of 24 and 5?

All apart from the fourth one will give the answer (120).

Discussion

Reason from Known Facts

What is the inverse?

When do you use the inverse?

How can we use multiplication/division facts to help us answer similar questions?

