

Multiplication Worksheets (Associative Property)

Place () in the equations to simplify and solve.

$$\left. \begin{array}{l} 12 \times 4 = (6 \times 2) \times 4 \\ = 6 \times (2 \times 4) \\ = 6 \times \underline{8} \end{array} \right\} = \underline{48}$$

$$\left. \begin{array}{l} 3 \times 14 = 3 \times (2 \times 7) \\ = (3 \times 2) \times 7 \\ = \underline{\quad} \times 7 \end{array} \right\} = \underline{\quad}$$

$$\left. \begin{array}{l} 3 \times 12 = 3 \times (3 \times 4) \\ = 3 \times 3 \times 4 \\ = \underline{\quad} \times 4 \end{array} \right\} = \underline{\quad}$$

Solve. Then match the related facts.

- | | |
|--|-------------------------|
| a. $20 \times 2 = \underline{40} =$ | $6 \times (5 \times 2)$ |
| b. $30 \times 2 = \underline{\quad} =$ | $8 \times (5 \times 2)$ |
| c. $35 \times 2 = \underline{\quad} =$ | $4 \times (5 \times 2)$ |
| d. $40 \times 2 = \underline{\quad} =$ | $7 \times (5 \times 2)$ |
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Place () in the equations to simplify and solve.

$$\left. \begin{array}{l} 12 \times 4 = (6 \times 2) \times 4 \\ = 6 \times (2 \times 4) \\ = 6 \times \underline{8} \end{array} \right\} = \underline{48}$$

$$\left. \begin{array}{l} 3 \times 14 = 3 \times (2 \times 7) \\ = (3 \times 2) \times 7 \\ = \underline{6} \times 7 \end{array} \right\} = \underline{42}$$

$$\left. \begin{array}{l} 3 \times 12 = 3 \times (3 \times 4) \\ = 3 \times 3 \times 4 \\ = \underline{9} \times 4 \end{array} \right\} = \underline{36}$$

Solve. Then match the related facts.

a. $20 \times 2 = \underline{40} =$	$6 \times (5 \times 2)$
b. $30 \times 2 = \underline{60} =$	$8 \times (5 \times 2)$
c. $35 \times 2 = \underline{70} =$	$4 \times (5 \times 2)$
d. $40 \times 2 = \underline{80} =$	$7 \times (5 \times 2)$

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