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3.OA.B.4 Multiplication and Division Fact Families

3.OA.B.4: Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.

Complete each fact family.

$7 \times 3 = 21$	$5 \times 6 = 30$	$2 \times 5 = 10$
$3 \times \underline{\quad} = 21$	$6 \times \underline{\quad} = 30$	$5 \times \underline{\quad} = 10$
$21 \div \underline{\quad} = 3$	$30 \div \underline{\quad} = 5$	$10 \div \underline{\quad} = 2$
$21 \div 3 = \underline{\quad}$	$30 \div 5 = \underline{\quad}$	$10 \div 2 = \underline{\quad}$

$7 \times 2 = 14$	$8 \times 4 = 32$	$15 \times 3 = 45$
$2 \times \underline{\quad} = 14$	$4 \times \underline{\quad} = 32$	$3 \times \underline{\quad} = 45$
$14 \div \underline{\quad} = 7$	$32 \div \underline{\quad} = 8$	$45 \div \underline{\quad} = 3$
$14 \div 7 = \underline{\quad}$	$32 \div 8 = \underline{\quad}$	$45 \div 3 = \underline{\quad}$

Find the missing number.

$28 \div 7 = \underline{\quad\quad}$ $45 \div \underline{\quad\quad} = 9$ $72 \div 8 = \underline{\quad\quad}$

$50 \div 5 = \underline{\quad\quad}$ $49 \div \underline{\quad\quad} = 7$ $63 \div 9 = \underline{\quad\quad}$

$48 \div 12 = \underline{\quad\quad}$ $16 \div \underline{\quad\quad} = 8$ $44 \div 4 = \underline{\quad\quad}$

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Answer Key

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$21 \div 7 = 3$	$30 \div 6 = 5$	$10 \div 5 = 2$
$21 \div 3 = 7$	$30 \div 5 = 6$	$10 \div 2 = 5$

$7 \times 2 = 14$	$8 \times 4 = 32$	$15 \times 3 = 45$
$2 \times 7 = 14$	$4 \times 5 = 32$	$3 \times 2 = 45$
$14 \div 2 = 7$	$32 \div 4 = 8$	$45 \div 15 = 3$
$14 \div 7 = 2$	$32 \div 8 = 4$	$45 \div 3 = 15$

Find the missing number.

$28 \div 7 = 4$ $45 \div 5 = 9$ $72 \div 8 = 9$

$50 \div 5 = 10$ $49 \div 7 = 7$ $63 \div 9 = 7$

$48 \div 12 = 4$ $16 \div 2 = 8$ $44 \div 4 = 11$