

NAME \_\_\_\_\_

DATE \_\_\_\_\_



## Number Line Puzzles page 1 of 2

### Note to Families

Students can use number lines to review the multiplication facts they learned in third grade. Number lines can help students use facts they know to help them figure facts they don't remember. Talk together about relationships between facts that you see in the two number lines below, such as numbers that double.

### 1 Fill in the blanks in the number lines.



### 2 Complete the equations.

$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$
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### 3 Roger's little brother, Saul, wants to know if $5 \times 7 = 7 \times 5$ . If you were Roger, how would you explain to Saul whether the equation is true?

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- 4** Each of the 29 students in Mr. Brown's fourth grade brought 2 notebooks to class the first day of school. How many notebooks was that in all? Show your thinking with numbers, sketches, and/or words. Then write an equation that represents your work

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 Equation

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 Answer, labeled with correct units

- 5** Each of the students in Mr. Smith's class also brought in 3 pocket folders. Mr. Smith wrote a multiplication equation to compare the number of students to the number of pocket folders they brought in. Fill in the bubble to show what this equation means.

$$87 = 3 \times 29$$

- 87 is 3 more than 29     
  87 is 3 times as many as 29     
  29 is 3 times as many as 87
- 6** **CHALLENGE** If 5 students each brought in 8 boxes with 10 pencils per box, and 10 students each brought in 8 boxes with 5 pencils per box, how many total pencils did the students bring in? Show your thinking with numbers, sketches, and/or words.

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 Equation

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 Answer, labeled with correct units