

SD72 PARENT HOME LEARNING LESSON

Fact Families Activity Grade 3-5

PURPOSE / SKILL: Practice adding and subtracting of single digits; practice multiplication and division of single digits; to notice the communicative property of adding and multiplication (the order of the numbers doesn't impact the total); develop fluency in adding and subtracting, multiplying, and dividing.

MATERIALS: Pencil and paper to create a activity board and record information; printed activity board example Dice, or [access to online dice roller \(https://rolladie.net/\)](https://rolladie.net/) ; access to a calculator to help fact check.

INSTRUCTIONS:

- Roll two dice and record the two numbers in the boxes above the equations.
- Record those two numbers in the spaces provide for addends
- Add to find their sum (total) and subtract to find the difference. OR multiply to find their product and divide to find the quotient.
- Complete the fact family for that number combination.

ACTIVITY: *activity board example includes below next steps.*

POSSIBLE NEXT STEPS:

- Use some dice with more than 6 sides to increase the size of the numbers being used.
- Focus on the patterns found for just one number
 - Use a particular number and then roll for a second number (example: everything must be added or multiplied by 11 and so I just roll one dice)
- Roll two dice and combine to make a two-digit sum/product; identify the different "ways" to make a total of this number. (Example: Roll a 5 and 4 – the total becomes 54 – find all the different combos you can for adding to 54 or multiplying to 54)
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Activity Board Example Addition/Subtraction

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>							
___	+	___	=	___	___	+	___	=	___	___	+	___	=	___
___	+	___	=	___	___	+	___	=	___	___	+	___	=	___
___	-	___	=	___	___	-	___	=	___	___	-	___	=	___
___	-	___	=	___	___	-	___	=	___	___	-	___	=	___
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___	+	___	=	___	___	+	___	=	___	___	+	___	=	___
___	+	___	=	___	___	+	___	=	___	___	+	___	=	___
___	-	___	=	___	___	-	___	=	___	___	-	___	=	___
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Activity Board example Multiplication/Division

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___	<input type="text"/>	___	=	___	___	<input type="text"/>	___	=	___
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___	÷	___	=	___	___	÷	___	=	___

FINISHED PRODUCT

4	5
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$$\begin{array}{r} 4 \\ \hline \end{array} + \begin{array}{r} 5 \\ \hline \end{array} = \begin{array}{r} 9 \\ \hline \end{array}$$
$$\begin{array}{r} 5 \\ \hline \end{array} + \begin{array}{r} 4 \\ \hline \end{array} = \begin{array}{r} 9 \\ \hline \end{array}$$
$$\begin{array}{r} 9 \\ \hline \end{array} - \begin{array}{r} 4 \\ \hline \end{array} = \begin{array}{r} 5 \\ \hline \end{array}$$
$$\begin{array}{r} 9 \\ \hline \end{array} - \begin{array}{r} 5 \\ \hline \end{array} = \begin{array}{r} 4 \\ \hline \end{array}$$

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$$\begin{array}{r} _ \\ \hline \end{array} + \begin{array}{r} _ \\ \hline \end{array} = \begin{array}{r} _ \\ \hline \end{array}$$
$$\begin{array}{r} _ \\ \hline \end{array} + \begin{array}{r} _ \\ \hline \end{array} = \begin{array}{r} _ \\ \hline \end{array}$$
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$$\begin{array}{r} _ \\ \hline \end{array} - \begin{array}{r} _ \\ \hline \end{array} = \begin{array}{r} _ \\ \hline \end{array}$$

$$\begin{array}{r} _ \\ \hline \end{array} + \begin{array}{r} _ \\ \hline \end{array} = \begin{array}{r} _ \\ \hline \end{array}$$
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$$\begin{array}{r} _ \\ \hline \end{array} - \begin{array}{r} _ \\ \hline \end{array} = \begin{array}{r} _ \\ \hline \end{array}$$