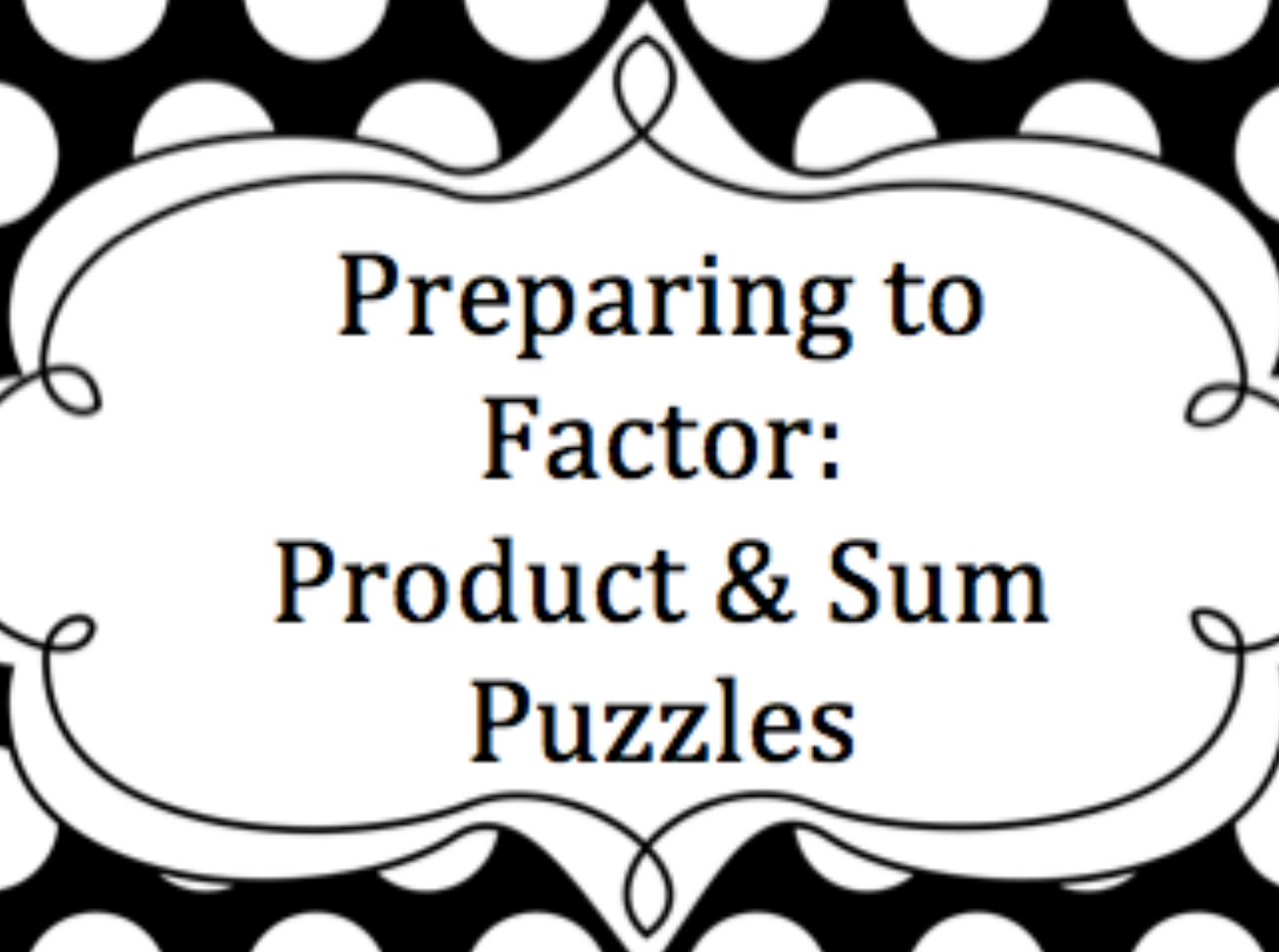


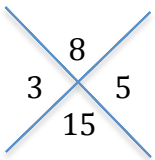
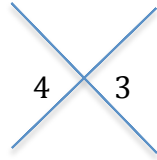
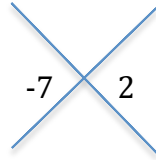
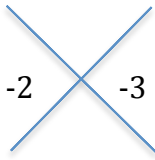
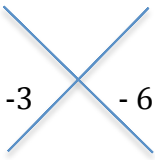
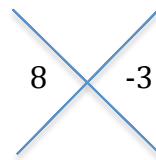
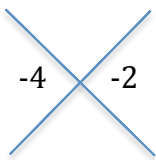
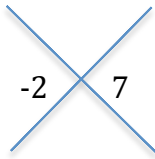
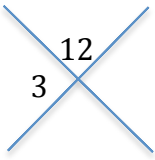
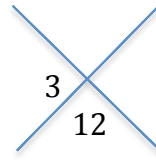
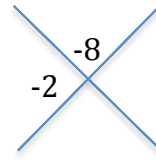
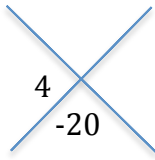
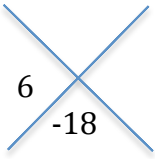
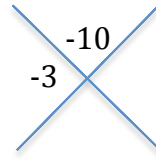
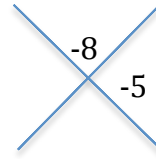
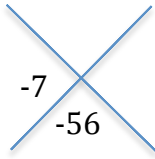
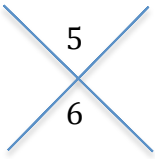
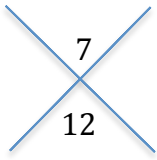
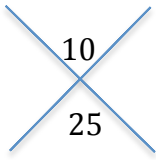
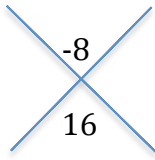
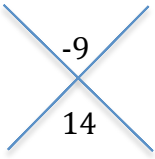
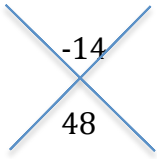
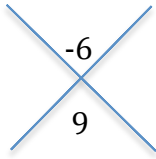
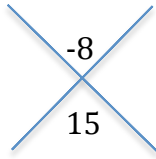
ALGEBRA 1



**Preparing to
Factor:
Product & Sum
Puzzles**

SECONDARY MATH SOLUTIONS

Complete each puzzle such that the sum of the two side numbers equals the top number and the product of the two side numbers equals the bottom number.

1) Example: 	2) 	3) 	4) 
5) 	6) 	7) 	8) 
9) 	10) 	11) 	12) 
13) 	14) 	15) 	16) 
17) 	18) 	19) 	20) 
21) 	22) 	23) 	24) 

25) $\begin{matrix} -2 \\ -3 \end{matrix}$	26) $\begin{matrix} 3 \\ -10 \end{matrix}$	27) $\begin{matrix} 1 \\ -20 \end{matrix}$	28) $\begin{matrix} -3 \\ -18 \end{matrix}$
29) $\begin{matrix} 7 \\ -18 \end{matrix}$	30) $\begin{matrix} -10 \\ -24 \end{matrix}$	31) $\begin{matrix} -8 \\ 15 \end{matrix}$	32) $\begin{matrix} -1 \\ -56 \end{matrix}$
33) $\begin{matrix} 1 \\ -6 \end{matrix}$	34) $\begin{matrix} -8 \\ 12 \end{matrix}$	35) $\begin{matrix} -5 \\ -24 \end{matrix}$	36) $\begin{matrix} -6 \\ -16 \end{matrix}$
37) $\begin{matrix} -10 \\ 21 \end{matrix}$	38) $\begin{matrix} -2 \\ -8 \end{matrix}$	39) $\begin{matrix} -5 \\ 4 \end{matrix}$	40) $\begin{matrix} -4 \\ 4 \end{matrix}$
41) $\begin{matrix} 7 \\ 12 \end{matrix}$	42) $\begin{matrix} -5 \\ 6 \end{matrix}$	43) $\begin{matrix} 1 \\ -42 \end{matrix}$	44) $\begin{matrix} 2 \\ -35 \end{matrix}$
45) $\begin{matrix} -12 \\ 36 \end{matrix}$	46) $\begin{matrix} -6 \\ -16 \end{matrix}$	47) $\begin{matrix} 8 \\ 15 \end{matrix}$	48) $\begin{matrix} -6 \\ 9 \end{matrix}$
49) $\begin{matrix} 24 \\ 144 \end{matrix}$	50) $\begin{matrix} -20 \\ 100 \end{matrix}$	51) $\begin{matrix} -14 \\ 49 \end{matrix}$	52) $\begin{matrix} -5 \\ -24 \end{matrix}$

Complete each puzzle such that the sum of the two side numbers equals the top number and the product of the two side numbers equals the bottom number.

1) Example: 	2) 	3) 	4)
5) 	6) 	7) 	8)
9) 	10) 	11) 	12)
13) 	14) 	15) 	16)
17) 	18) 	19) 	20)
21) 	22) 	23) 	24)

25)	$\begin{array}{ccc} & -2 & \\ -3 & \times & 1 \\ & -3 & \end{array}$	26)	$\begin{array}{ccc} & 3 & \\ 5 & \times & -2 \\ & -10 & \end{array}$	27)	$\begin{array}{ccc} & 1 & \\ 5 & \times & -4 \\ & -20 & \end{array}$	28)	$\begin{array}{ccc} & -3 & \\ -6 & \times & 3 \\ & -18 & \end{array}$
29)	$\begin{array}{ccc} & 7 & \\ 9 & \times & -2 \\ & -18 & \end{array}$	30)	$\begin{array}{ccc} & -10 & \\ -12 & \times & 2 \\ & -24 & \end{array}$	31)	$\begin{array}{ccc} & -8 & \\ -5 & \times & -3 \\ & 15 & \end{array}$	32)	$\begin{array}{ccc} & -1 & \\ -8 & \times & 7 \\ & -56 & \end{array}$
33)	$\begin{array}{ccc} & 1 & \\ 3 & \times & -2 \\ & -6 & \end{array}$	34)	$\begin{array}{ccc} & -8 & \\ -6 & \times & -2 \\ & 12 & \end{array}$	35)	$\begin{array}{ccc} & -5 & \\ -8 & \times & 3 \\ & -24 & \end{array}$	36)	$\begin{array}{ccc} & -6 & \\ -8 & \times & 2 \\ & -16 & \end{array}$
37)	$\begin{array}{ccc} & -10 & \\ -7 & \times & -3 \\ & 21 & \end{array}$	38)	$\begin{array}{ccc} & -2 & \\ -4 & \times & 2 \\ & -8 & \end{array}$	39)	$\begin{array}{ccc} & -5 & \\ -4 & \times & -1 \\ & 4 & \end{array}$	40)	$\begin{array}{ccc} & -4 & \\ -2 & \times & -2 \\ & 4 & \end{array}$
41)	$\begin{array}{ccc} & 7 & \\ 3 & \times & 4 \\ & 12 & \end{array}$	42)	$\begin{array}{ccc} & -5 & \\ -2 & \times & -3 \\ & 6 & \end{array}$	43)	$\begin{array}{ccc} & 1 & \\ 7 & \times & -6 \\ & -42 & \end{array}$	44)	$\begin{array}{ccc} & 2 & \\ 7 & \times & -5 \\ & -35 & \end{array}$
45)	$\begin{array}{ccc} & -12 & \\ -6 & \times & -6 \\ & 36 & \end{array}$	46)	$\begin{array}{ccc} & -6 & \\ -8 & \times & 2 \\ & -16 & \end{array}$	47)	$\begin{array}{ccc} & 8 & \\ 3 & \times & 5 \\ & 15 & \end{array}$	48)	$\begin{array}{ccc} & -6 & \\ -3 & \times & -3 \\ & 9 & \end{array}$
49)	$\begin{array}{ccc} & 24 & \\ 12 & \times & 12 \\ & 144 & \end{array}$	50)	$\begin{array}{ccc} & -20 & \\ -10 & \times & -10 \\ & 100 & \end{array}$	51)	$\begin{array}{ccc} & -14 & \\ -7 & \times & -7 \\ & 49 & \end{array}$	52)	$\begin{array}{ccc} & -5 & \\ -8 & \times & 3 \\ & -24 & \end{array}$

The only way to learn mathematics is to do mathematics.

-- Paul Halmos

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