

Factor Table 3A

Integers With Missing Key Numbers

Product Rules: Multiply down	
1 Negative key = negative product	
2 Negative keys = positive product	

Sum Rules: Combine (add or subtract) up	
Match the sign of the larger key number(absolute value)	
Same signs - Add; Different signs - Subtract	

1.	-5	Sum	-3	2.	17	3.	-11	4.	-15	5.	2	6.	-1	7.
		Key												
		Key												
	-14	Product	-28		72		10		54		-48		-42	

8.	-15	9.	-7	10.	-6	11.	13	12.	9	13.	13	14.	18
	54		6		5		30		18		36		81

15.	-11	16.	0	17.	-5	18.	-9	19.	2	20.	-6	21.	1
	28		-100		-6		0		-63		-16		0

22.	18	23.	13	24.	16	25.	5	26.	9	27.	-10	28.	6
	80		36		63		0		0		9		-27

29.	-4	30.	4	31.	1	32.	-11	33.	9	34.	-6	35.	0
	-12		3		-42		18		14		5		-16

Factor Table 3B

Integers With Missing Key Numbers

Product Rules: Multiply down	
1 Negative key = negative product	
2 Negative keys = positive product	

Sum Rules: Combine (add or subtract) up	
Match the sign of the larger key number(absolute value)	
Same signs - Add; Different signs - Subtract	

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Match the sign of the larger key number(absolute value)	
Same signs - Add; Different signs - Subtract	

1.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">4</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-12</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	4	Sum	-12	Product	2.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-4</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-60</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-4	Sum	-60	Product	3.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-3</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-4</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-3	Sum	-4	Product	4.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">8</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">7</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	8	Sum	7	Product	5.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">9</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">8</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	9	Sum	8	Product	6.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-6</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-40</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-6	Sum	-40	Product	7.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">10</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">9</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	10	Sum	9	Product
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15.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-8</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-9</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-8	Sum	-9	Product	16.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-3</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">2</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-3	Sum	2	Product	17.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">11</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">28</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	11	Sum	28	Product	18.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-3</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-10</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-3	Sum	-10	Product	19.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">1</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-12</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	1	Sum	-12	Product	20.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-17</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">70</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-17	Sum	70	Product	21.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-9</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-10</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-9	Sum	-10	Product
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22.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-2</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-80</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-2	Sum	-80	Product	23.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-7</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">10</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-7	Sum	10	Product	24.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-1</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-56</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-1	Sum	-56	Product	25.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-14</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">45</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-14	Sum	45	Product	26.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">9</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">14</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	9	Sum	14	Product	27.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-6</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">0</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-6	Sum	0	Product	28.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-14</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">40</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-14	Sum	40	Product
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29.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-1</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">0</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-1	Sum	0	Product	30.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">7</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-8</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	7	Sum	-8	Product	31.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-9</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-10</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-9	Sum	-10	Product	32.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-4</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">-32</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-4	Sum	-32	Product	33.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">17</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">72</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	17	Sum	72	Product	34.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">4</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">4</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	4	Sum	4	Product	35.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">-12</td><td style="width: 50%; text-align: center;">Sum</td></tr> <tr><td style="width: 50%; text-align: center;">20</td><td style="width: 50%; text-align: center;">Product</td></tr> </table>	-12	Sum	20	Product
-1	Sum																																								
0	Product																																								
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-4	Sum																																								
-32	Product																																								
17	Sum																																								
72	Product																																								
4	Sum																																								
4	Product																																								
-12	Sum																																								
20	Product																																								

Factor Table 3D

Integers With Missing Key Numbers

Product Rules: Multiply down
1 Negative key = negative product
2 Negative keys = positive product

Sum Rules: Combine (add or subtract) up
Match the sign of the larger key number(absolute value)
Same signs - Add; Different signs - Subtract

1.	18	Sum	-5	2.	10	3.	-7	4.	-4	5.	-9	6.	3	7.
		Key												
		Key												
	81	Product	-50		16		-8		-60		-10		-54	

8.	-3	9.	-7	10.	5	11.	5	12.	13	13.	-6	14.	7
	-70		-8		-14		4		42		8		6

15.	0	16.	15	17.	-1	18.	-4	19.	-16	20.	-3	21.	7
	-9		50		-90		4		60		-10		-30

22.	0	23.	0	24.	7	25.	7	26.	-7	27.	-13	28.	-9
	0		-81		-18		-8		0		30		0

29.	-1	30.	17	31.	-1	32.	4	33.	7	34.	10	35.	-2
	-2		72		-30		-12		-18		24		-80

Factor Table 3A

Key

1.	$\begin{matrix} -5 \\ 2 \\ -7 \\ -14 \end{matrix}$	2.	$\begin{matrix} -3 \\ 4 \\ -7 \\ -28 \end{matrix}$	3.	$\begin{matrix} 17 \\ 8 \\ 9 \\ 72 \end{matrix}$	4.	$\begin{matrix} -11 \\ -1 \\ -10 \\ 10 \end{matrix}$	5.	$\begin{matrix} -15 \\ -6 \\ -9 \\ 54 \end{matrix}$	6.	$\begin{matrix} 2 \\ 8 \\ -6 \\ -48 \end{matrix}$	7.	$\begin{matrix} -1 \\ 6 \\ -7 \\ -42 \end{matrix}$
8.	$\begin{matrix} -15 \\ -9 \\ -6 \\ 54 \end{matrix}$	9.	$\begin{matrix} -7 \\ -1 \\ -6 \\ 6 \end{matrix}$	10.	$\begin{matrix} -6 \\ -5 \\ -1 \\ 5 \end{matrix}$	11.	$\begin{matrix} 13 \\ 3 \\ 10 \\ 30 \end{matrix}$	12.	$\begin{matrix} 9 \\ 6 \\ 3 \\ 18 \end{matrix}$	13.	$\begin{matrix} 13 \\ 9 \\ 4 \\ 36 \end{matrix}$	14.	$\begin{matrix} 18 \\ 9 \\ 9 \\ 81 \end{matrix}$
15.	$\begin{matrix} -11 \\ -4 \\ -7 \\ 28 \end{matrix}$	16.	$\begin{matrix} 0 \\ 10 \\ -10 \\ -100 \end{matrix}$	17.	$\begin{matrix} -5 \\ 1 \\ -6 \\ -6 \end{matrix}$	18.	$\begin{matrix} -9 \\ -9 \\ 0 \\ 0 \end{matrix}$	19.	$\begin{matrix} 2 \\ 9 \\ -7 \\ -63 \end{matrix}$	20.	$\begin{matrix} -6 \\ 2 \\ -8 \\ -16 \end{matrix}$	21.	$\begin{matrix} 1 \\ 0 \\ 1 \\ 0 \end{matrix}$
22.	$\begin{matrix} 18 \\ 8 \\ 10 \\ 80 \end{matrix}$	23.	$\begin{matrix} 13 \\ 9 \\ 4 \\ 36 \end{matrix}$	24.	$\begin{matrix} 16 \\ 7 \\ 9 \\ 63 \end{matrix}$	25.	$\begin{matrix} 5 \\ 5 \\ 0 \\ 0 \end{matrix}$	26.	$\begin{matrix} 9 \\ 0 \\ 9 \\ 0 \end{matrix}$	27.	$\begin{matrix} -10 \\ -1 \\ -9 \\ 9 \end{matrix}$	28.	$\begin{matrix} 6 \\ 9 \\ -3 \\ -27 \end{matrix}$
29.	$\begin{matrix} -4 \\ 2 \\ -6 \\ -12 \end{matrix}$	30.	$\begin{matrix} 4 \\ 3 \\ 1 \\ 3 \end{matrix}$	31.	$\begin{matrix} 1 \\ -6 \\ 7 \\ -42 \end{matrix}$	32.	$\begin{matrix} -11 \\ -9 \\ -2 \\ 18 \end{matrix}$	33.	$\begin{matrix} 9 \\ 2 \\ 7 \\ 14 \end{matrix}$	34.	$\begin{matrix} -6 \\ -1 \\ -5 \\ 5 \end{matrix}$	35.	$\begin{matrix} 0 \\ 4 \\ -4 \\ -16 \end{matrix}$

Factor Table 3B

Key

1.	$\begin{matrix} 8 \\ 7 \\ 1 \\ 7 \end{matrix}$	2.	$\begin{matrix} -15 \\ -10 \\ -5 \\ 50 \end{matrix}$	3.	$\begin{matrix} 3 \\ -5 \\ 8 \\ -40 \end{matrix}$	4.	$\begin{matrix} 3 \\ 0 \\ 3 \\ 0 \end{matrix}$	5.	$\begin{matrix} 13 \\ 6 \\ 7 \\ 42 \end{matrix}$	6.	$\begin{matrix} 9 \\ 2 \\ 7 \\ 14 \end{matrix}$	7.	$\begin{matrix} -14 \\ -8 \\ -6 \\ 48 \end{matrix}$
8.	$\begin{matrix} 14 \\ 8 \\ 6 \\ 48 \end{matrix}$	9.	$\begin{matrix} -3 \\ 2 \\ -5 \\ -10 \end{matrix}$	10.	$\begin{matrix} -3 \\ -6 \\ 3 \\ -18 \end{matrix}$	11.	$\begin{matrix} -2 \\ 1 \\ -3 \\ -3 \end{matrix}$	12.	$\begin{matrix} -9 \\ -4 \\ -5 \\ 20 \end{matrix}$	13.	$\begin{matrix} 0 \\ -6 \\ 6 \\ -36 \end{matrix}$	14.	$\begin{matrix} 4 \\ -5 \\ 9 \\ -45 \end{matrix}$
15.	$\begin{matrix} -3 \\ -5 \\ 2 \\ -10 \end{matrix}$	16.	$\begin{matrix} 3 \\ 1 \\ 2 \\ 2 \end{matrix}$	17.	$\begin{matrix} 4 \\ 8 \\ -4 \\ -32 \end{matrix}$	18.	$\begin{matrix} 1 \\ 4 \\ -3 \\ -12 \end{matrix}$	19.	$\begin{matrix} 14 \\ 7 \\ 7 \\ 49 \end{matrix}$	20.	$\begin{matrix} 8 \\ 5 \\ 3 \\ 15 \end{matrix}$	21.	$\begin{matrix} 11 \\ 5 \\ 6 \\ 30 \end{matrix}$
22.	$\begin{matrix} 15 \\ 10 \\ 5 \\ 50 \end{matrix}$	23.	$\begin{matrix} -1 \\ -8 \\ 7 \\ -56 \end{matrix}$	24.	$\begin{matrix} 10 \\ 5 \\ 5 \\ 25 \end{matrix}$	25.	$\begin{matrix} 6 \\ -1 \\ 7 \\ -7 \end{matrix}$	26.	$\begin{matrix} 9 \\ 2 \\ 7 \\ 14 \end{matrix}$	27.	$\begin{matrix} 5 \\ 5 \\ 0 \\ 0 \end{matrix}$	28.	$\begin{matrix} 7 \\ -1 \\ 8 \\ -8 \end{matrix}$
29.	$\begin{matrix} 3 \\ 1 \\ 2 \\ 2 \end{matrix}$	30.	$\begin{matrix} -16 \\ -7 \\ -9 \\ 63 \end{matrix}$	31.	$\begin{matrix} 8 \\ -2 \\ 10 \\ -20 \end{matrix}$	32.	$\begin{matrix} -2 \\ -8 \\ 6 \\ -48 \end{matrix}$	33.	$\begin{matrix} -8 \\ 0 \\ -8 \\ 0 \end{matrix}$	34.	$\begin{matrix} -10 \\ -3 \\ -7 \\ 21 \end{matrix}$	35.	$\begin{matrix} 0 \\ 7 \\ -7 \\ -49 \end{matrix}$

Factor Table 3C

Key

1.	<table border="1"><tr><td>4</td></tr><tr><td>-2</td></tr><tr><td>6</td></tr><tr><td>-12</td></tr></table>	4	-2	6	-12	2.	<table border="1"><tr><td>-4</td></tr><tr><td>6</td></tr><tr><td>-10</td></tr><tr><td>-60</td></tr></table>	-4	6	-10	-60	3.	<table border="1"><tr><td>-3</td></tr><tr><td>1</td></tr><tr><td>-4</td></tr><tr><td>-4</td></tr></table>	-3	1	-4	-4	4.	<table border="1"><tr><td>8</td></tr><tr><td>1</td></tr><tr><td>7</td></tr><tr><td>7</td></tr></table>	8	1	7	7	5.	<table border="1"><tr><td>9</td></tr><tr><td>1</td></tr><tr><td>8</td></tr><tr><td>8</td></tr></table>	9	1	8	8	6.	<table border="1"><tr><td>-6</td></tr><tr><td>4</td></tr><tr><td>-10</td></tr><tr><td>-40</td></tr></table>	-6	4	-10	-40	7.	<table border="1"><tr><td>10</td></tr><tr><td>1</td></tr><tr><td>9</td></tr><tr><td>9</td></tr></table>	10	1	9	9
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