

Directed Number Addition & Subtraction



Section A

- | | | | |
|---------------|---------------|----------------|----------------|
| 1) $-1 + 1 =$ | 6) $-2 + 2 =$ | 11) $3 - 3 =$ | 16) $-1 - 3 =$ |
| 2) $-1 + 2 =$ | 7) $1 - 2 =$ | 12) $-1 + 0 =$ | 17) $-3 + 1 =$ |
| 3) $-1 + 3 =$ | 8) $-4 + 1 =$ | 13) $-4 + 4 =$ | 18) $-5 + 1 =$ |
| 4) $1 - 3 =$ | 9) $-3 + 3 =$ | 14) $-1 - 2 =$ | 19) $-7 + 1 =$ |
| 5) $-2 + 1 =$ | 10) $5 - 4 =$ | 15) $-1 - 1 =$ | 20) $-8 - 1 =$ |

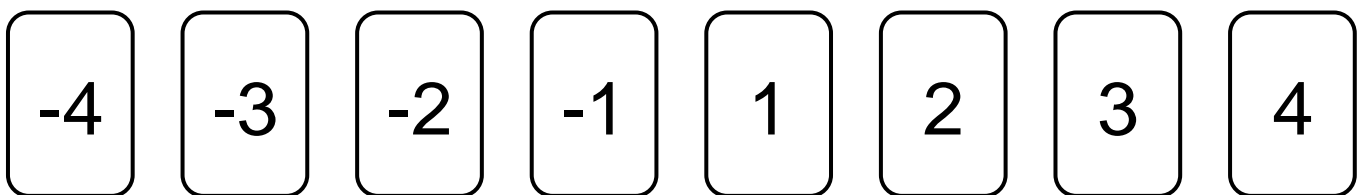
Section B

- | | | | |
|----------------|----------------|-----------------|----------------|
| 1) $-3 + 1 =$ | 6) $6 - 8 =$ | 11) $-2 + 4 =$ | 16) $-8 - 7 =$ |
| 2) $-5 + 4 =$ | 7) $3 - 7 =$ | 12) $-1 + 9 =$ | 17) $-3 + 3 =$ |
| 3) $-12 + 7 =$ | 8) $9 - 11 =$ | 13) $-4 - 1 =$ | 18) $-5 + 5 =$ |
| 4) $-8 + 3 =$ | 9) $-6 + 9 =$ | 14) $-10 - 3 =$ | 19) $-2 + 1 =$ |
| 5) $4 - 5 =$ | 10) $-7 + 1 =$ | 15) $-6 - 6 =$ | 20) $-8 + 9 =$ |

Section C

- | | | | |
|----------------|-----------------|-----------------|------------------|
| 1) $-13 + 2 =$ | 6) $11 - 17 =$ | 11) $-4 + 19 =$ | 16) $-23 - 7 =$ |
| 2) $-15 + 6 =$ | 7) $15 - 22 =$ | 12) $-9 + 19 =$ | 17) $-15 + 16 =$ |
| 3) $-12 + 8 =$ | 8) $1 - 14 =$ | 13) $-7 - 10 =$ | 18) $-18 + 17 =$ |
| 4) $-18 + 5 =$ | 9) $-10 + 13 =$ | 14) $-12 - 8 =$ | 19) $-34 + 35 =$ |
| 5) $16 - 7 =$ | 10) $-9 + 15 =$ | 15) $-6 - 14 =$ | 20) $-61 + 60 =$ |

Section D



$\square + \square = 0$	$\square - \square = 0$	$\square + \square = -1$	$\square - \square = -5$
$\square + \square = 1$	$\square - \square = -1$	$\square + \square = -2$	$\square - \square = -6$
$\square + \square = 2$	$\square - \square = -2$	$\square + \square = -3$	$\square - \square = -7$
$\square + \square = 3$	$\square - \square = -3$	$\square + \square = -4$	$\square - \square = -8$



Section A

1) $2 - 7 =$

2) $-4 + 8 =$

3) $-2 + 12 =$

4) $-7 - 4 =$

5) $9 - 10 =$

6) $-7 + 4 =$

7) $-8 - 11 =$

8) $-15 + 1 =$

9) $-12 + 14 =$

10) $-10 + 23 =$

11) $-6 - 11 =$

12) $-12 - 17 =$

Section B

1) $2 + -6 =$

2) $9 - +9 =$

3) $4 + -3 =$

4) $3 - +8 =$

5) $-2 + -4 =$

6) $-5 - +5 =$

7) $3 - -4 =$

8) $8 - -5 =$

9) $10 - -6 =$

10) $7 - -3 =$

11) $-1 - -3 =$

12) $-6 - -2 =$

Section C

1) $-8 - -12 =$

2) $-8 + -10 =$

3) $-16 - +7 =$

4) $27 + -5 =$

5) $-17 - -3 =$

6) $-3 - -14 =$

7) $-17 + -9 =$

8) $-8 - +19 =$

9) $-54 - +24 =$

10) $-10 - -8 =$

11) $9 - +20 =$

12) $-18 - -33 =$

Section D

1) $7 - +2 - -4 =$

2) $-5 - -4 + -2 =$

3) $4 + -6 - -7 =$

4) $-3 - -9 + -9 =$

5) $18 + -3 - -4 =$

6) $2 + (5 - -3) =$

7) $-11 + (-8 - -2) =$

8) $7 - (-2 + -6) =$

9) $(-4 + -2) + (4 - -9) =$

10) $3 - ((-1 + -5) - 12) =$

Directed Number Search



*Find the sums to + 1.
Go horizontal, vertical or diagonal.
You may choose more than 2 numbers!
There are 30 to find!*

- 2	- 1	- 2	+ 2	- 1	+ 1	+ 1	- 2	- 1	- 1
+ 0	+ 3	- 1	- 3	+ 2	+ 5	- 4	- 1	+ 1	+ 0
+ 2	- 2	+ 3	+ 4	- 2	- 3	+ 2	- 3	+ 3	+ 1
- 3	- 2	+ 0	- 1	- 5	+ 5	+ 3	+ 1	- 1	- 5
+ 3	+ 4	+ 1	+ 1	+ 4	- 4	+ 0	+ 2	+ 1	+ 2
- 2	- 1	+ 5	- 2	- 2	+ 5	+ 4	+ 1	+ 2	+ 3
+ 0	- 2	- 1	- 5	+ 1	+ 3	- 2	- 1	- 1	- 4
- 4	- 1	+ 5	- 3	- 4	+ 2	- 3	+ 2	- 5	+ 5
+ 0	+ 1	+ 1	+ 2	- 3	- 2	- 1	+ 1	- 1	+ 2
+ 3	- 1	+ 3	- 1	- 1	+ 0	+ 4	- 3	+ 0	+ 4

Negative Number Multiplication Grids



Section A

x	8	-3	7	-4
5	40			
-6		18		
4				-16
-11				-77

x	-7	3	1	-4
-2				
8				
-9				
10				

x	-5	4	-9	2
-2				
-3				
-7				
6				

x	7	-9	4	-3
1				
6				
-5				
-8				

x	8	-2	-7	9
12				
-5				
-11				
-8				

x	-5	4	-9	2
-2				
-3				
-7				
6				

Section B

x	-8	6	7	-4
	-24	18	21	-12
	-8	6	7	-4
	56	-42	-49	28
	-72	54	63	-36

x				
-3	-9	24	-6	36
-8	-24	64	-16	96
-2	-6	16	-4	24
-12	-36	96	-24	144

x	6	-4	8	
	54	-36	72	-63
	-12	8	-16	14
	42	-28	56	-49
	-24	16	-32	28

x				
	-14	18	22	8
	63	-81	-99	-36
	21	-27	-33	-12
	-70	90	110	40

x				
	-10	22	-20	14
	60	-132	120	-84
	-25	55	-50	35
	-35	77	-70	49

x				
	12	-18	24	-36
	-20	30	-40	60
	-28	42	-56	84
	36	-54	72	-108

Section C

x	4	-9		
		-8	18	
-3		-12		
	35			-14
				12

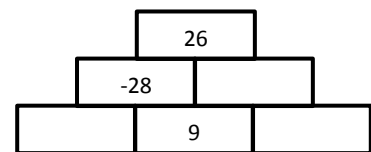
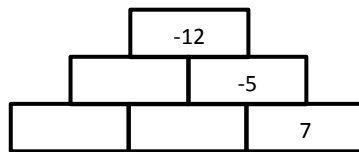
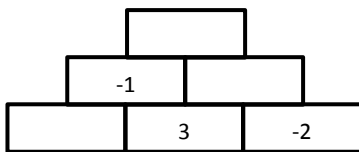
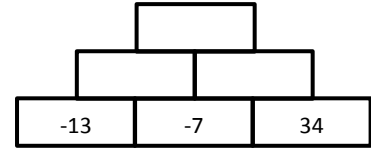
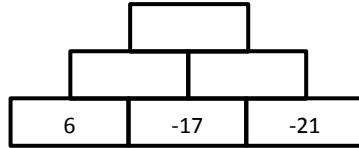
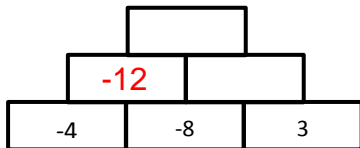
x	-7			
	24	-14	8	-18
7		-49		
4		-28	16	
	-36			

x		-9	-11	
-2				22
5		-35	-45	
	-48		54	
-7		49		

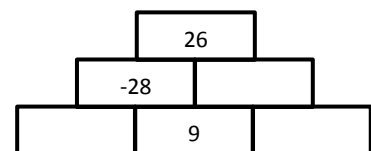
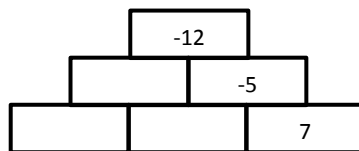
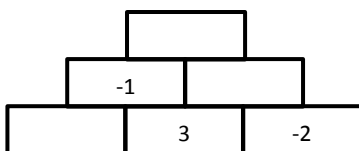
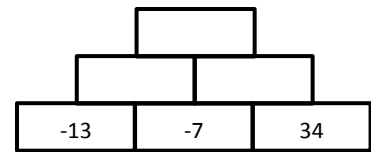
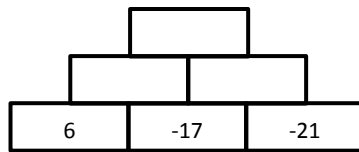
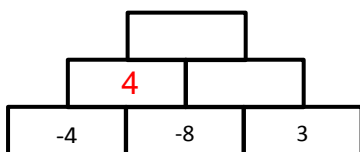
Negative Number Pyramids



Section A: Add the two previous blocks below, the first one has been done for you



Section B: Subtract the two previous blocks below, the first one has been done for you





Answer as many questions as you can in 10 minutes! Good luck!

- | | | |
|-----------------------|-----------------------|----------------------|
| 1) $3 \times -4 =$ | 34) $-3 + 1 =$ | 67) $-33 \div -3 =$ |
| 2) $-1 \times 9 =$ | 35) $-5 - 2 =$ | 68) $-12 \div 3 =$ |
| 3) $-5 \times -8 =$ | 36) $6 - 7 =$ | 69) $-18 \div -2 =$ |
| 4) $7 \times -3 =$ | 37) $-9 + 5 =$ | 70) $-18 \div -3 =$ |
| 5) $-6 \times 4 =$ | 38) $21 - 26 =$ | 71) $-54 \div 6 =$ |
| 6) $-2 \times -2 =$ | 39) $-18 + 7 =$ | 72) $-35 \div -7 =$ |
| 7) $7 \times -9 =$ | 40) $3 + -2 =$ | 73) $36 \div -3 =$ |
| 8) $-4 \times 5 =$ | 41) $1 - +4 =$ | 74) $-49 \div -7 =$ |
| 9) $-8 \times -6 =$ | 42) $5 - -6 =$ | 75) $66 \div -11 =$ |
| 10) $-11 \times 7 =$ | 43) $8 + -2 =$ | 76) $27 \div -3 =$ |
| 11) $12 \times -3 =$ | 44) $-3 - -2 =$ | 77) $-40 \div -8 =$ |
| 12) $-6 \times -9 =$ | 45) $12 + -9 =$ | 78) $90 \div 3 =$ |
| 13) $-10 \times 12 =$ | 46) $-6 + -7 =$ | 79) $-40 \div -2 =$ |
| 14) $-9 \times 4 =$ | 47) $-4 - +3 =$ | 80) $-130 \div 10 =$ |
| 15) $12 \times 12 =$ | 48) $18 - -13 =$ | 81) $-10 + 30 =$ |
| 16) $8 \div -2 =$ | 49) $-3 - -7 =$ | 82) $30 - 90 =$ |
| 17) $-12 \div -6 =$ | 50) $-16 + -2 =$ | 83) $40 - 50 =$ |
| 18) $-15 \div 3 =$ | 51) $-5 \times -4 =$ | 84) $-85 + 5 =$ |
| 19) $9 \div 3 =$ | 52) $-1 \times -8 =$ | 85) $-70 - 10 =$ |
| 20) $-18 \div -3 =$ | 53) $-3 \times -5 =$ | 86) $40 - 60 =$ |
| 21) $-27 \div 9 =$ | 54) $9 \times -2 =$ | 87) $-120 + 80 =$ |
| 22) $-32 \div -4 =$ | 55) $-7 \times 4 =$ | 88) $100 - 300 =$ |
| 23) $24 \div -6 =$ | 56) $-1 \times -1 =$ | 89) $-150 + 90 =$ |
| 24) $-48 \div -12 =$ | 57) $8 \times -9 =$ | 90) $54 + -72 =$ |
| 25) $56 \div -8 =$ | 58) $-4 \times 4 =$ | 91) $16 - +41 =$ |
| 26) $25 \div -5 =$ | 59) $-12 \times -6 =$ | 92) $35 - -62 =$ |
| 27) $-42 \div -7 =$ | 60) $-11 \times 8 =$ | 93) $89 + -111 =$ |
| 28) $72 \div 6 =$ | 61) $12 \times -5 =$ | 94) $-63 - -24 =$ |
| 29) $-84 \div -12 =$ | 62) $-8 \times -6 =$ | 95) $14 + -37 =$ |
| 30) $-16 \div 4 =$ | 63) $-7 \times 6 =$ | 96) $-88 + -19 =$ |
| 31) $-2 + 5 =$ | 64) $-9 \times 4 =$ | 97) $-47 - +32 =$ |
| 32) $6 - 8 =$ | 65) $11 \times 11 =$ | 98) $16 - -56 =$ |
| 33) $4 - 7 =$ | 66) $9 \div -1 =$ | 99) $146 + -200 =$ |