-20 to 20 Number Line



-20 to 20 Number Line





-50 to 50 Number Line

-5	0	-48	3 -	46	-4	4	-42	-4	0 -	38	-36	-34	-32	-3	30 ·	-28	-26	-2	4 -	22	-20	-18	8 -	16	-14	-1	2 -	10	-8	-6	-4	-2	0
	-49		-47	-	45	-43	-4	41	-39	-37	-3	5 -3	3	-31	-29	-27	7 -	25	-23	-21	-1	19	-17	-1	5 -	13	-11	-9	-7	-5	-	3	-1
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	1		3		5	7		9	11	13	1	5 1	7	19	21	23		25	27	29	3	1	33	35	5 3	37	39	41	43	45	4	7	49
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-50 to 50 Number Line

-50		-48		-46	-44	4	-42	-4	0 -	38	-36	-34	-32	-3	0 -	28	-26	-24	-2	2	-20	-18	-1	6 -	14	-12	-10) -	8	-6	-4	-2	0
	-49		-47	-4	5	-43	-4	1	-39	-3	7 -3	5 -3	3 -	31	- 29	-27	-2	25	-23	-21	-1	9 -	17	-15	-13	-1	11	-9	-7	-5	-	3	-1
0		2		4	6		8	10)	12	14	16	18	20	0	22	24	26	2	8	30	32	34	. 3	86	38	40	4	2	44	46	48	50
	1		3	1	5	7		9	11	13	1	5 1	7	19	21	23	2	5	27	29	3	1 3	33	35	37	3	9	41	43	45	4	7	49

Focused education on life's walk www.regentstudies.com	-50 to 50 Number Line
-50 -48 -46 -44 -42 -49 -47 -45 -43 -41 	-40 -38 -36 -34 -32 -30 -28 -26 -24 -22 -20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 -39 -37 -35 -33 -31 -29 -27 -25 -23 -21 -19 -17 -15 -13 -11 -9 -7 -5 -3 -1
0 2 4 6 8 1 3 5 7 9 1 1 1 1 1 1	10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 1 <t< th=""></t<>

Blank Number Lines



Number Line B



Computer Conundrums

To interpret negative numbers in context.



These players have made it to level 3 of the computer game. Find each player's score.





Computer Conundrums

To interpret negative numbers in context.

-000

Level 1

These players are all at level 1 of the computer game. Can you find each player's score?



Level 2

At level 2, these players' scores are shown on a different scale. Work out each player's score.



Level 3

These players have made it to level 3 of the computer game. Find each player's score.





Computer Conundrums

To interpret negative numbers in context.

Level 1

These players are all at level 1 of the computer game. The difference between Edie and Esme's scores is 20. Can you find each player's score?



Level 2

At level 2, these players' scores are shown on a different scale. The difference between Mike and Cara's scores is 72. Work out each player's score.



Level 3

These players have made it to level 3 of the computer game. The difference between John and Dana's score is 90. Find each player's score.





Computer Conundrums Answers



Amber: -15Adam: -5Elisa: 5



Computer Conundrums Answers





Computer Conundrums Answers

Level 1

These players are all at level 1 of the computer game. The difference between Edie and Esme's scores is 20. Can you find each player's score?



Level 2

At level 2, these players' scores are shown on a different scale. The difference between Mike and Cara's scores is 72. Work out each player's score.



Level 3

These players have made it to level 3 of the computer game. The difference between John and Dana's score is 90. Find each player's score.







- 1) Catrina is wrong. If you add 5 to negative 3 you will have 2. Children might show this on a number line jotting.
- 2) Timo is incorrect because with negative numbers, as you move in steps further away from zero, the digits get bigger but in fact, the number is getting smaller.
 -16 is further away from zero than -5 and is therefore colder in terms of temperature.

1) Here is one possible route through the maze.

Start at -20	Count forwards 4	Count backwards 2	Count forwards 5
Count backwards 2	Count forwards 2	Count backwards 5	Count forwards 6
Count forwards 5	Count backwards 1	Count forwards 6	Count backwards 3
Count forwards 1	Count forwards 3	Count forwards 2	Count backwards 3
Count forwards 2	Count forwards 8	Count backwards 3	Count forwards 7
Count backwards 5	Count forwards 2	Count forwards 1	Count backwards 1
Count backwards 2	Count forward 5	Finish O	Count forwards 7

2) Many answers possible, but should meet these criteria:	A = -8	A = -11	A = -16
• B is negative	B = -2	B = -5	B = -10
• B - 6 = A	C = 3	C = 0	C = -5
• B + 5 = C			
• B + 10 = D	D = 8	D = 5	D = 0







1)	If I add 5 to negative 3, I get negative 8.
	Do you agree? Explain your thinking.
2)	Timo is watching the weather forecast. In Canada, it is -5°C and in Norway, it is -16°C. Timo says it is warmer in Norway than in Canada because 16 is greater than 5.



1) Starting with -20, can you find a route through the maze, moving only left, right, up or down to finish on exactly 0?



Start at -20	Count	Count	Count
	forwards 4	backwards 2	forwards 5
Count	Count	Count	Count
backwards 2	forwards 2	backwards 5	forwards 6
Count	Count	Count	Count
forwards 5	backwards 1	forwards 6	backwards 3
Count	Count	Count	Count
forwards 1	forwards 3	forwards 2	backwards 3
Count	Count	Count	Count
forwards 2	forwards 8	backwards 3	forwards 7
Count	Count	Count	Count
backwards 5	forwards 2	forwards 1	backwards 1
Count	Count	Finish O	Count
backwards 2	forward 5		forwards 7

2) Here is a number line.









 Starting with -20, can you find a route through the maze, moving only left, right, up or down to finish on exactly 0?



Start	Count	Count	Count
at -20	forwards 4	backwards 2	forwards 5
Count	Count	Count	Count
backwards 2	forwards 2	backwards 5	forwards 6
Count	Count	Count	Count
forwards 5	backwards 1	forwards 6	backwards 3
Count	Count	Count	Count
forwards 1	forwards 3	forwards 2	backwards 3
Count	Count	Count	Count
forwards 2	forwards 8	backwards 3	forwards 7
Count	Count	Count	Count
backwards 5	forwards 2	forwards 1	backwards 1
Count	Count	Finish O	Count
backwards 2	forward 5		forwards 7

2) Here is a number line.



 Starting with -20, can you find a route through the maze, moving only left, right, up or down to finish on exactly 0?



Start	Count	Count	Count
at -20	forwards 4	backwards 2	forwards 5
Count	Count	Count	Count
backwards 2	forwards 2	backwards 5	forwards 6
Count	Count	Count	Count
forwards 5	backwards 1	forwards 6	backwards 3
Count	Count	Count	Count
forwards 1	forwards 3	forwards 2	backwards 3
Count	Count	Count	Count
forwards 2	forwards 8	backwards 3	forwards 7
Count	Count	Count	Count
backwards 5	forwards 2	forwards 1	backwards 1
Count	Count	Finish O	Count
backwards 2	forward 5		forwards 7

2) Here is a number line.



What could be the values of A, B, C and D? Give three possible sets of numbers.













Race to Zero Cards

To count forwards and backwards through zero.

Cut out these cards and use them to play the Race to Zero game.

Count backwards 1	Count backwards 2	Count forwards 1	Count forwards 2
Count backwards 3	Count backwards 4	Count forwards 3	Count forwards 4
Count backwards 5	Count backwards 6	Count forwards 5	Count forwards 6
Count backwards 7	Count backwards 8	Count forwards 7	Count forwards 8
Count backwards 9	Count backwards 10	Count forwards 9	Count forwards 10



Race to Zero Cards

To count forwards and backwards through zero.

Cut out these cards and use them to play the Race to Zero game.

Count backwards 1	Count backwards 4	Count forwards 1	Count forwards 2
Count backwards 5	Count backwards 8	Count forwards 5	Count forwards 6
Count backwards 7	Count backwards 10	Count forwards 13	Count forwards 10
Count backwards 15	Count backwards 12	Count forwards 17	Count forwards 16
Count backwards 25	Count backwards 20	Count forwards 25	Count forwards 20



Race to Zero Cards

To count forwards and backwards through zero.

Cut out these cards and use them to play the Race to Zero game.

Count backwards	Count backwards	Count forwards	Count forwards
-1 + 2	a quarter of 16	-6 + 7	10 doubled
Count backwards	Count backwards $\frac{1}{10}$ of 60	Count forwards	Count forwards
a third of 15		-10 + 15	$rac{1}{6}$ of 36
Count backwards	Count backwards	Count forwards	Count forwards
-3 + 10	10% of 100	half of 26	-5 + 15
Count backwards	Count backwards	Count forwards	Count forwards
three lots of 10	1.2 × 10	15 + 2	8 doubled
Count backwards	Count backwards	Count forwards	Count forwards
half of 50	double 5	$rac{1}{4}$ of 100	10% of 200

