

Negative Numbers

1. Draw a line to match the numbers below to the correct place on the number line.

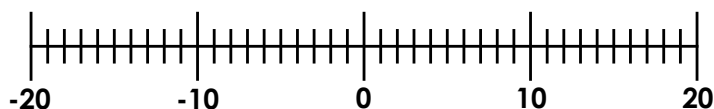
12

-15

-1

-4

7

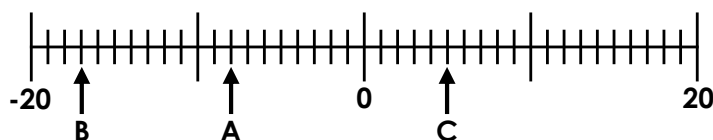


4. Betty has recorded each answer to the questions below on the number line.

A. Fifteen less than seven

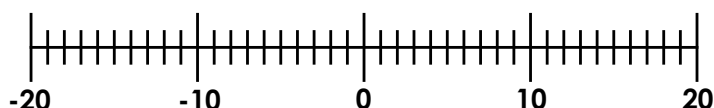
B. 4 more than negative 13

C. -4 add 9

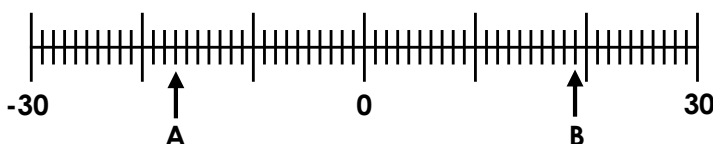


Is she correct? Explain your answer.

2. If the temperature in Leeds is 18°C and the temperature in Helsinki is -13°C , what is the difference between the two temperatures? Use the number line to help.



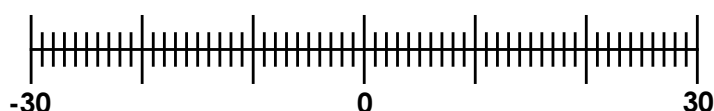
5. Avneet thinks that the number that lies halfway between A and B is 2. Is he correct? Prove it.



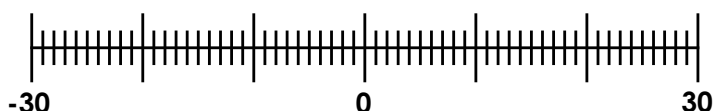
3. Circle the smallest number in each set of data and mark them on the number line below with an arrow.

A. -28 30 -21 17 -10 28

B. 9 21 -17 -23 29 -21



6. Hanin had £23 in her bank account. On Wednesday, she spent £16. On Thursday, she paid a £22 electricity bill. How much money does Hanin have in her bank account now?



Add and Subtract More Than 4 Digits

1. Match the correct answers to the additions shown below.

A.

	3	1	1	3	4
		2	5	6	3
+	2	3	2	0	6

B.

	4	7	5	4	0
+		9	3	6	7

C.

		2	9	5	7
	5	1	3	3	8
+			3	5	1

56,903

54,466

54,646

56,907

2. Makkan is thinking of this 5-digit number.

37,968



If I add 42,041 to this number, what number will I make?

3. A pirate ship is loaded with 41,942 gold coins, and sets sail.

A storm hits the ship and 20,568 gold coins are swept into the ocean. 10,938 gold coins are then stolen before the pirate ship manages to reach its destination. Pirate Paul says,

By the end of the journey, there will be less than 10,443 gold coins left!



Pirate Paul

Is he correct? Explain how you know.

Multi-Step Problems

Emma was delighted when she won £10,000 on the lottery. She decided to go on a shopping spree. On her way out of the last shop, she dropped some receipts.

Below are some receipts that were on the floor, but only two of them are Emma's.

<div><div>PC Land</div><div>2.3.4.5 HX 23.5.19</div><div>Cashier: Amir</div><table><tr><th>QTY</th><th>DESC</th><th>AMT</th></tr><tr><td>1</td><td>PC</td><td>£2,579</td></tr></table></div>	QTY	DESC	AMT	1	PC	£2,579	<div><div>Timmy Cook</div><div>4.7.6.5 HX 23.5.19</div><div>Agent: Jules</div><table><tr><th>QTY</th><th>DESC</th><th>AMT</th></tr><tr><td>1</td><td>Cruise</td><td>£5,999</td></tr></table></div>	QTY	DESC	AMT	1	Cruise	£5,999	<div><div>Korrays</div><div>1.7.4.9 BD 23.5.19</div><div>Assistant: Helen</div><table><tr><th>QTY</th><th>DESC</th><th>AMT</th></tr><tr><td>1</td><td>T.V.</td><td>£4,029</td></tr></table></div>	QTY	DESC	AMT	1	T.V.	£4,029	<div><div>HARGUS</div><div>5.7.2.0 BD 23.5.19</div><div>Sales Clerk: Anders</div><table><tr><th>QTY</th><th>DESC</th><th>AMT</th></tr><tr><td>1</td><td>Washer</td><td>£969</td></tr></table></div>	QTY	DESC	AMT	1	Washer	£969
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What are the possible combinations that she bought, and how much change does she have left over from her £10,000 for each one?

<u>Possible Combination</u>	<u>Amount of change</u>

Multiples

1. Match the number to its multiple.

Number	Multiple
6	27
8	36
9	32

5. Alex is thinking of a number.



My number is a multiple of 11 and 2. It is even and between 20 and 50.

What could his number be?
Find all the possible answers.

2. True or false? Prove it.

81 is a multiple of 8.

3. Complete the sequence of multiples below.

42 56 63

6. Below is a section of a hundred square.

62	63	64
72	73	74
82	83	84

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?

4. Fill in the table below with two possible multiples for each number.

Number	Multiples	
7		
9		
12		
6		

7. Which is the odd one out?
Explain how you know.

12 64 16
32
40 72 58

Factors

1. Draw lines to match the factor pairs of 16. Which pair is the odd one out?

4	6
3	8
2	4

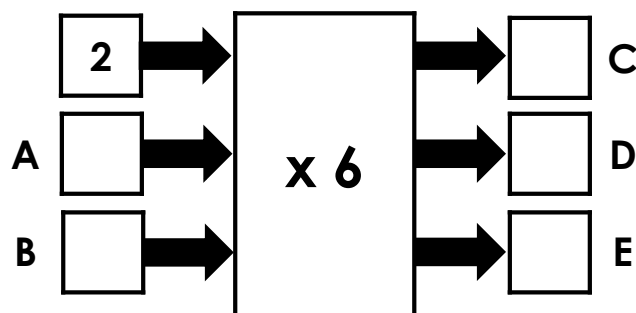
5. Complete the .

		42
4		24
28	36	

2. True or false? All of these numbers are factors of 22.

4	1	22
2	6	11

6. Three factors are put into the machine below. Use the clues to work out what the missing factors and products could be.



D is double C.

B is an odd number.

E is bigger than D but smaller than 40.

3. Circle the numbers that are NOT factors of 14.

7	1	4
6		14
	2	

4. Complete the missing factors of 27.

1			27
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7. Class 5 have been finding factors.

Tommy says,



The number 16 has got six different factors.

Is he correct? Prove it.