

4.5.21

Where does the number lie?

Task

- 1) Draw an arrow to estimate these numbers on the number lines.



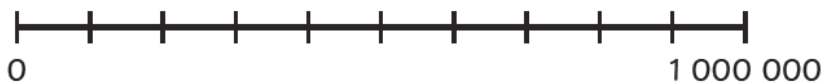
- a) 27 000



- b) 70 000



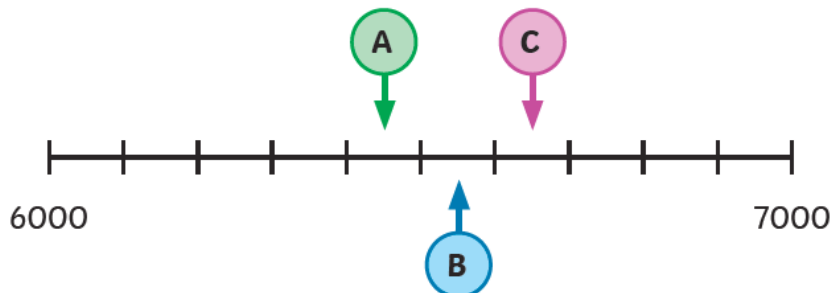
- c) 850 000



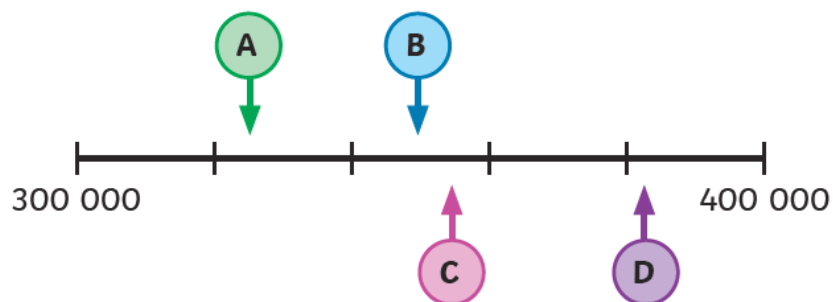
- d) 3 000 000



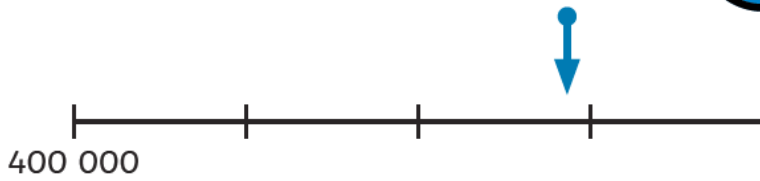
- 2) Which letter is the best estimate for 6550 on this number line? Explain your reasoning.



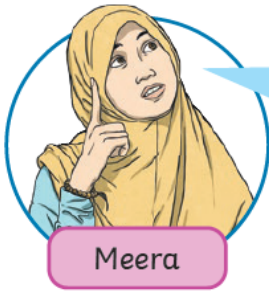
- 3) Estimate the values.



- 1) Meera has drawn a number line and marked the starting value.



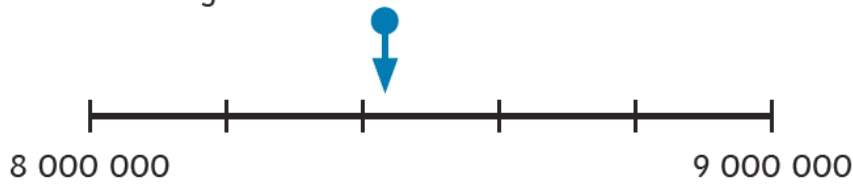
Each interval represents 25 000.



I estimate the arrow to be showing 480 000.

Do you agree with Meera? Explain your reasoning.

- 2) Jude and Sian are estimating the value indicated on the number line. Who is correct? Explain your reasoning.

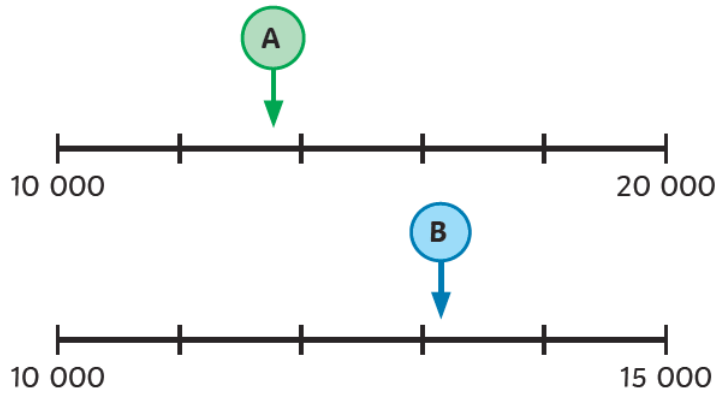


I estimate the value to be less than 8 400 000.

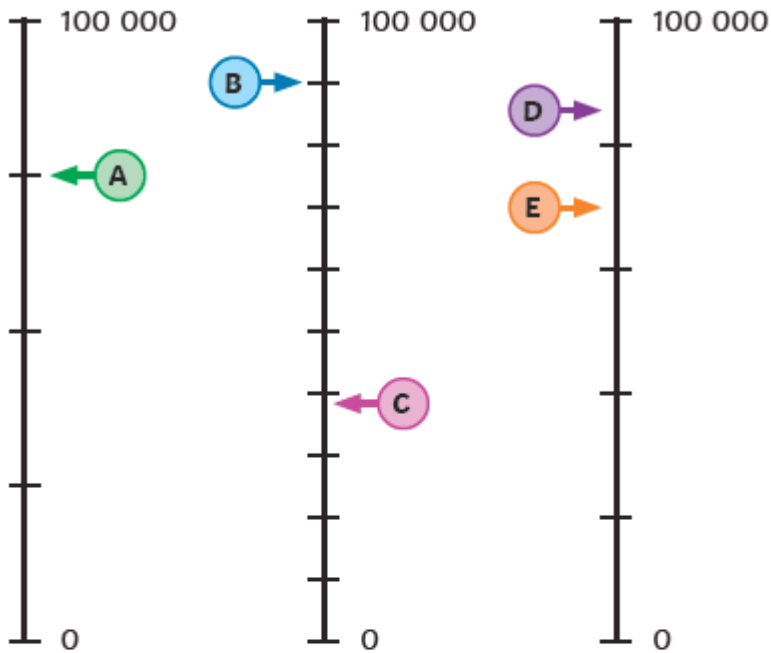
I estimate the value to be more than 8 400 000.



- 3) On the number lines, which arrow is placed at the smaller number? Explain your reasoning.

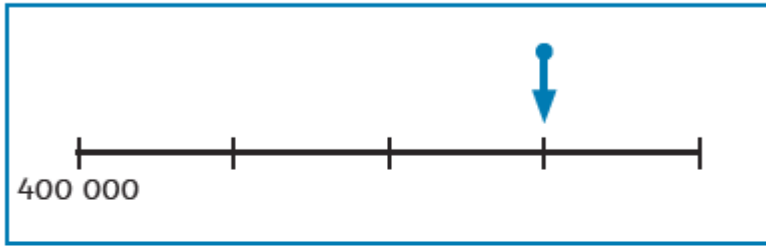


1) a) Match the clues to the letters shown on the vertical number lines.



Clue
1) The value of the 7 in 75 628
2) 10 000 less than 48 267
3) 20 000 more than 64 300
4) The value of the 9 in 98 123
5) $44\,398 + 30\,602$

2) Meena has drawn a number line and marked the starting value.



I estimate the arrow to be showing 480 000.

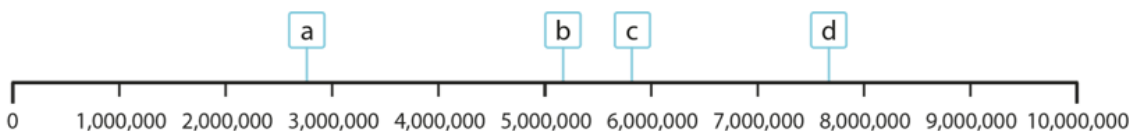
Do you agree with Meera? Explain your reasoning.

5.5.21

What is the next multiple?

Task

Please complete the tasks as shown on the slides.



Plenary

Bingo:

Play with a partner.

Choose a bingo board to have and then work through the slides crossing out the numbers you identify.

25 000

98 000

100 000

8 100 000

9 000 000

5 000 000

76 000

475 000

8 100 000

10 000

7 200 000

250 000

720 000

40 000

5 900 000

250 000

25 000

9 000 000

53 000

350 000

100 000

5 900 000

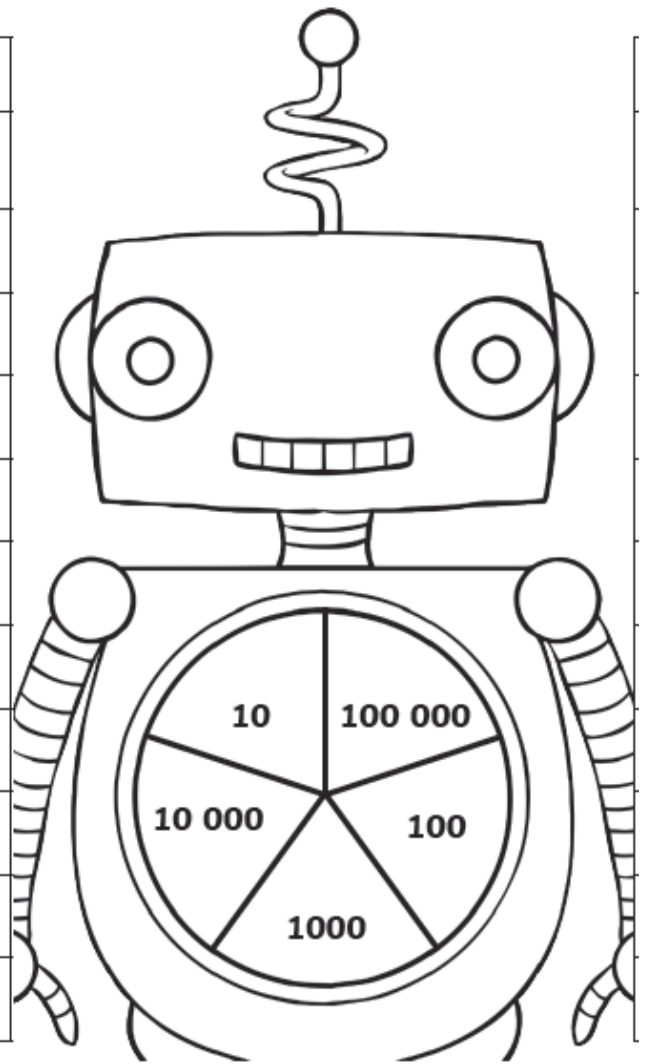
98 000

5 000 000

6.5.21

Can you round?

Player 1		
Input	Round to the nearest...	Output
427 813		
64 231		
73 453		
982 165		
534 891		
573 356		
48 274		
52 124		
31 465		
386 231		



1) Round each of these numbers to the nearest 1000, 10 000, 100 000 and 1 000 000.






	Rounded to the nearest 1000	Rounded to the nearest 10 000	Rounded to the nearest 100 000	Rounded to the nearest 1 000 000
275 691				
1 565 724				
3 813 089				





- 2) This table has been completed with some of the answers when a number was rounded. Write a number that fits the answers given in each row.

Number	Rounded to the nearest 1000	Rounded to the nearest 10 000	Rounded to the nearest 100 000	Rounded to the nearest 1 000 000
	50 000		100 000	
		3 410 000		3 000 000
	8 110 000		8 100 000	

- 3) Complete the place value chart so that it rounds to 400 000 when rounded to the nearest 100 000 and 10 000.

M	HTh	TTh	Th	H	T	O
						

- 4) Complete the place value chart so that it rounds to 2 700 000 when rounded to the nearest 100 000 and 1000.

M	HTh	TTh	Th	H	T	O
						

- 1) Poppy and Curtis are rounding numbers.
Can you explain the mistake that each of them has made?



I am rounding 1 545 599 to the nearest 10 000. Because there is a five in the hundreds place, this number will round to 1 545 000.



When rounding 4 215 041 to the nearest 100, 1000 and 10 000, it always rounds down to the same number.

2) Explain whether you agree with the statements about the numbers on the cards.

1 256 957	1 249 901	1 304 001	1 259 527
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- a) All four of these numbers will round to 1 300 000 when rounded to the nearest 100 000.
- b) Only one of these numbers rounds to 1 260 000 when rounded to the nearest 10 000.
- c) When you round two of these numbers to the nearest 1000, you will get a multiple of 10 000 as the answer.

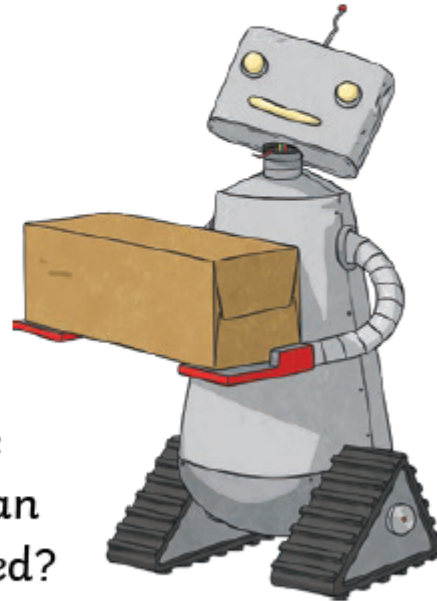
- 1) a) A factory made 9654 parts for robots on day one, 12 486 parts on day two, 17 501 parts on day three, 19 521 parts on day four and 23 809 parts on day five.



Another factory that makes parts for robots managed to make 119 692 parts on Monday and Tuesday and 179 501 parts during the rest of the week.

The last factory made 640 499 parts for robots in a week.

By rounding to the nearest 1000, can you estimate how many more parts for robots the last factory made in a week than the other two factories combined?



- b) If you round the number of robot parts made to the nearest 10 000, how would this change your estimate?

- 2) A reading book has approximately 22 words on each line. Each page has approximately 38 lines. The



book has 479 pages. Using rounding, can you work out approximately how many words are in the reading book?

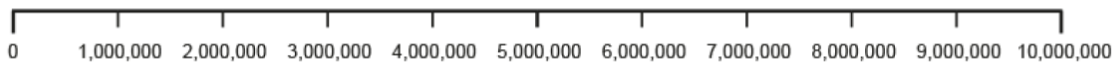
7.5.21

What do you know about numbers?

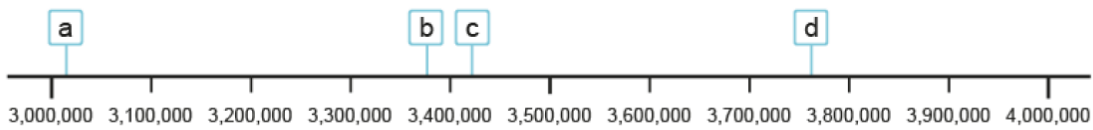
Task

1. Show roughly where each of these numbers is located on the number line below.

2,783,450 7,000,500 5,250,000 8,192,092 99,000



2. Estimate the values of a, b, c and d.



3. For each number:

- write the previous and next multiple of 1 million
- circle the previous or next multiple of 1 million which is closest to the number

**previous
multiple of
1,000,000**

**next
multiple of
1,000,000**

< 2,783,450 <

< 5,192,012 <

< 5,811,159 <

< 7,683,102 <

4. Fill in the missing numbers.

6,361,040	6,371,040	6,381,040	6,391,040	6,401,040	6,411,040		
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2,004,567	2,003,567	2,002,567	2,001,567	2,000,567	1,999,567		
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7,730,004		7,930,004	8,030,004		8,230,004		8,430,004
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	9,149,301		9,129,301	9,119,301			9,089,301
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5. What might the missing number be in this web page?

Astro Times

- Home
- History
- Star Maps
- Contact



The Earth's circumference is estimated to be around km. Calculations have shown the distance all around the equator to measure 40,075km.

6. A swimming pool holds approximately 82,000 litres of water. The capacity of the swimming pool has been rounded to the nearest multiple of 1,000. Fill in the missing numbers to complete the sentences.

- The minimum amount of water that the pool could hold is _____.
- The maximum amount of water that the pool could hold is _____.