

1 Find the highest possible value for  $x$  for each inequality:

$x \leq 1$

$x \leq 2$

$x \leq 3$

$x \leq 4$

$2x \leq 2$

$2x \leq 4$

$2x \leq 6$

$2x \leq 8$

$x+1 \leq 2$

$x+2 \leq 3$

$x+3 \leq 4$

$x+4 \leq 5$

$x-1 \leq 2$

$x-2 \leq 3$

$x-3 \leq 4$

$x-4 \leq 5$

2 Find the lowest possible value for  $x$  for each inequality:

$x \geq 1$

$x \geq 2$

$x \geq 3$

$x \geq 4$

$2x \geq 2$

$2x \geq 4$

$2x \geq 6$

$2x \geq 8$

$x+1 \geq 2$

$x+2 \geq 3$

$x+3 \geq 4$

$x+4 \geq 5$

$x-1 \geq 2$

$x-2 \geq 3$

$x-3 \geq 4$

$x-4 \geq 5$

3 Solve the inequalities:

$x+1 \leq 11$

$x+1 \leq 21$

$x+1 \leq 31$

$x+1 \leq 41$

$2x \leq 2$

$2x \leq 4$

$2x \leq 6$

$2x \leq 8$

$x+1 \leq 2$

$x+2 \leq 3$

$x+3 \leq 4$

$x+4 \leq 5$

$x-1 \leq 2$

$x-2 \leq 3$

$x-3 \leq 4$

$x-4 \leq 5$

$x+1 \geq 11$

$x+1 \geq 21$

$x+1 \geq 31$

$x+1 \geq 41$

$2x \geq 2$

$2x \geq 4$

$2x \geq 6$

$2x \geq 8$

$x+1 \geq 2$

$x+2 \geq 3$

$x+3 \geq 4$

$x+4 \geq 5$

$x-1 \geq 2$

$x-2 \geq 3$

$x-3 \geq 4$

$x-4 \geq 5$

4 Complete the table:

Original number	Rounded to nearest 10	Rounded to nearest 100	Rounded to nearest 1000
1	0	0	0
10			
14			
15			
49			
50			
54			
55			
499			
500			
999			
9,999			
99,999			
999,999			
9,999,999			
99,999,999			
999,999,999			
9,999,999,999			
99,999,999,999			

5 Complete the table:

Original number	Rounded to nearest 0.1	Rounded to nearest 0.01	Rounded to nearest 0.001
1	1	1	1
1.1			
0.14			
0.15			
1.49			
1.50			
2.54			
2.55			
3.499			
3.500			
4.999			
9.999			
9.9999			
9.99999			
9,999.999			
99,999.999			
999,999.999			
9,999.999999			
99,999.999999			

- 6 Each number has been rounded to the nearest 10. Write the error interval within which the original number must lie. The first two rows have already been completed!

Number rounded to nearest 10	Error interval
10	$5 \leq x < 15$
20	$15 \leq x < 25$
30	
40	
50	
60	
70	
80	
90	

- 7 Each number has been rounded to the nearest 100. Write the error interval within which the original number must lie. The first two rows have already been completed!

Number rounded to nearest 100	Error interval
100	$50 \leq x < 150$
200	$150 \leq x < 250$
300	
400	
500	
600	
700	
800	
900	