

Unit 1 Test: Foundations of Algebra



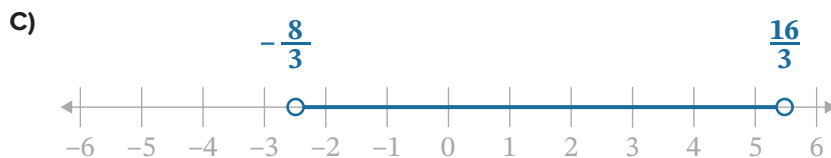
The test answer keys provide answers only.

Worked solutions for these problems are located in the Digital Pack.

1)

A) $|2n + 3| \geq 6$

B) $n \geq \frac{3}{2}$ or $n \leq -\frac{9}{2}$



D) The solutions are the numbers $\{0, 1, 2, 3, 4, 5\}$.

Sample:

Since you cannot drive a fraction of a car or a negative number of cars, only whole numbers can be used for the solution.

2) B

3) C

4) D

5) B

6) A

7) C

8) C

9) D

10) A

11) D

12) C

13) B

14) C

15) B

16) B

17) A

18) D

19) A

20) B

21) C

22) D

23)

$-|2x| = 12$

$\frac{x-3}{x} = \frac{1}{2}$

$\frac{2}{3}(12-x) = x-2$

$|x-6| = 0$

24)

12

15

54

60

25)

-5

-1

0

5