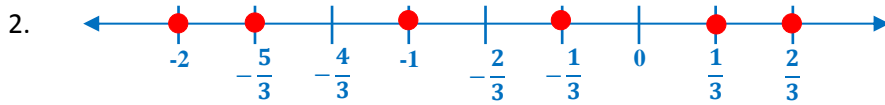
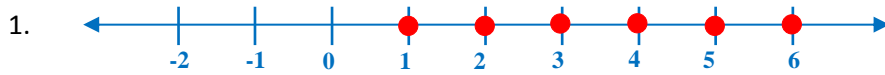


Real Numbers and the Number Line Assignment

Name the coordinates of the points graphed on each number line.



Graph each set of numbers.

3. $\left\{-\frac{1}{2}, 0, \frac{1}{4}, \frac{3}{4}, \frac{5}{4}\right\}$



4. $\{-1.4, -0.6, 1.8, 3.2, 4.5\}$



Find each absolute value.

5. $|-20|$

6. $|19|$

7. $|2.5|$

8. $\left|-\frac{1}{5}\right|$

9. $|-83|$

10. $|10|$

11. $|79|$

12. $|-16|$

Evaluate each expression if $x = 8$, $y = 14$, and $z = -0.67$.

13. $6.5 - |8.4 - z|$

14. $7.4 + |z - 2.6|$

15. $|-z| + (x + 3.2)$

Real Numbers and the Number Line Assignment

16. $91 + |21 - y|$

17. $|x| + 13 - 4$

18. $2.8 - 1.3 + |z| = 2.17$

19. $|z| - 0.22$

20. Place each numbers in the most SPECIFIC categories of real numbers they belong.

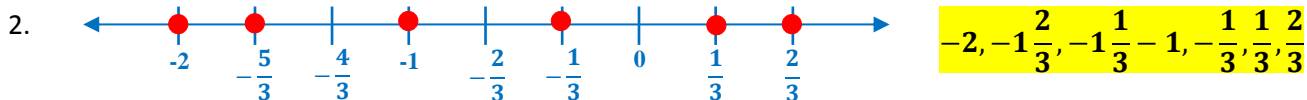
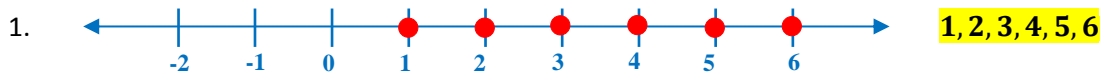
-16 -7 $-\frac{2}{5}$ 35 $\frac{3}{2}$ $-\frac{5}{9}$ 0.66 50 9.82 -69.99

- a) **Real Numbers** :
- b) **Irrational Numbers** :
- c) **Rational Numbers** :
- d) **Non-integers** :
- e) **Integers** :
- f) **Negative Numbers** :
- g) **Whole Numbers** :
- h) **Zero** :
- i) **Natural Numbers** :

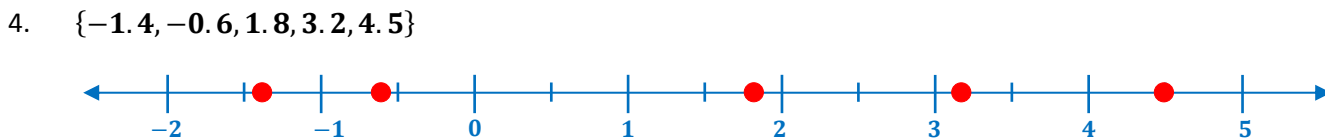
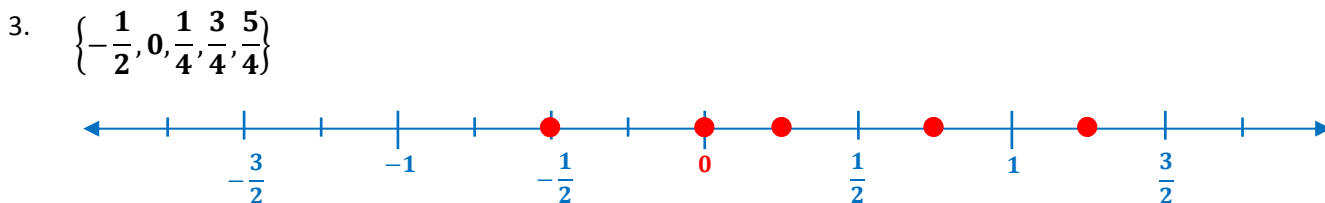
Real Numbers and the Number Line Assignment

ANSWER

Name the coordinates of the points graphed on each number line.



Graph each set of numbers.



Find each absolute value.

5. $|-20| = 20$ 6. $|19| = 19$ 7. $|2.5| = 2.5$ 8. $|\frac{1}{5}| = \frac{1}{5}$
9. $|-83| = 83$ 10. $|10| = 10$ 11. $|79| = 79$ 12. $|-16| = 16$

Evaluate each expression if $x = 8$, $y = 14$, and $z = -0.67$.

13. $6.5 - |8.4 - z|$
 $= 6.5 - |8.4 - (-0.67)|$
 $= 6.5 - |8.4 + 0.67|$
 $= 6.5 - 84.67$
 $= -19.67$
14. $7.4 + |z - 2.6|$
 $= 7.4 + |-0.67 - 2.6|$
 $= 7.4 + |-3.27|$
 $= 7.4 + 3.27$
 $= 77.27$
15. $|-z| + (x + 3.2)$
 $= | -(-0.67) | + (8 + 3.2)$
 $= |0.67| + 11.2$
 $= 0.67 + 11.2$
 $= 11.87$
16. $91 + |21 - y|$
 $= 91 + |21 - 14|$
 $= 91 + 7$
 $= 98$
17. $|x| + 13 - 4$
 $= |8| + 13 - 4$
 $= 8 + 9$
 $= 17$
18. $2.8 - 1.3 + |z|$
 $= 2.8 - 1.3 + |-0.67|$
 $= 1.5 + 0.67$
 $= 2.17$

Real Numbers and the Number Line Assignment

19. $|z| - 0.22$
 $= |-0.67| - 0.22$
 $= 0.67 - 0.22$
 $= 0.45$

20. Place each numbers in the most specific categories of real numbers they belong.

- -16 -7 $-\frac{2}{5}$ 35 $\frac{3}{2}$ $-\frac{5}{9}$ 0.66 50 9.82 -69.99
- j) Real Numbers : $-\frac{2}{5}, -\frac{5}{9}, -69.99, \frac{3}{2}, 0.66, 9.82, -16, -7, 35, 50$
- k) Irrational Numbers :
- l) Rational Numbers : $-\frac{2}{5}, -\frac{5}{9}, -69.99, \frac{3}{2}, 0.66, 9.82, -16, -7, 35, 50$
- m) Non-integers : $-\frac{2}{5}, -\frac{5}{9}, -69.99, \frac{3}{2}, 0.66, 9.82$
- n) Integers : $-16, -7, 35, 50$
- o) Negative Numbers : $-16, -7$
- p) Whole Numbers : $35, 50$
- q) Zero :
- r) Natural Numbers : $35, 50$