

Algebra I
4.5 Worksheet

NAME: _____
DATE: _____ HOUR: _____

Express each fraction as a decimal. Use the repeating bar for repeating decimals.

1. $\frac{1}{8}$

2. $\frac{5}{8}$

3. $\frac{3}{5}$

4. $\frac{5}{9}$

5. $\frac{3}{8}$

6. $\frac{2}{3}$

7. $\frac{2}{7}$

8. $\frac{1}{6}$

9. $\frac{4}{7}$

10. $\frac{4}{9}$

11. $\frac{1}{9}$

12. $\frac{7}{9}$

13. $\frac{6}{11}$

14. $\frac{5}{6}$

15. $\frac{2}{5}$

Is the number rational or is it irrational?

- | | | | | |
|-------------------|------------------|-------------------|------------------|--------------------|
| 1. 4 | 2. $\frac{1}{5}$ | 3. $\sqrt{4}$ | 4. $\frac{1}{8}$ | 5. -8 |
| 6. $\sqrt{7}$ | 7. $\sqrt{9}$ | 8. $\frac{3}{4}$ | 9. $\sqrt{2}$ | 10. $\frac{1}{3}$ |
| 11. $\sqrt{6}$ | 12. -7 | 13. $\frac{4}{5}$ | 14. 11 | 15. $4\frac{3}{5}$ |
| 16. $\sqrt{16}$ | 17. 6.72 | 18. 3.715 | 19. $-\sqrt{25}$ | 20. 2π |
| 21. $\frac{2}{3}$ | 22. $-\sqrt{10}$ | 23. $\frac{5}{8}$ | 24. -17 | 25. $-\sqrt{49}$ |

Is every natural number an integer?

Is every real number a rational number?

Is every integer a whole number?

Is every integer a real number?

Graph the numbers on a number line.

- $0, -\frac{4}{3}, 2\sqrt{2}, -0.5, -1.\overline{98}, 3, 0.45$



Then list the numbers from least to greatest.