

Chapter 6 Section 1: Decimal Numbers

Problems

In problems 1–12, label each decimal number as a whole number decimal, a terminating decimal, a repeating decimal, or an irrational number.

1. 1.625

2. 2.71828182846...

3. 293.0

4. 1.111111111111...

5. 0.50

6. 0.6666...

7. 1.73205080757...

8. 3.0000000

9. 4.12310562562...

10. 3,254,769.0

11. 0.142857142857...

12. 29.4375

In problems 13–16, write each repeating decimal using a bar to indicate repetition.

13. 0.44444444...

14. 1.166666...

15. 11.32113211...

16. 0.98572572...

Round each decimal number to the specified place value.

17. 254.143; hundredths place

18. 175.9842; tenths place

19. 358.50122; ten-thousandths place

20. 567.034; two decimal places

21. 98.3259; thousandths place

22. 2,333.9789; hundredths place

23. 54.876; hundredths place

24. 22.13; tenths place

25. 1,372.00045; ten-thousandths place

26. 18.3674; thousandths place

27. 9,237.24955; thousandths place

28. 2,468.97531; two decimal places

29. 435.99; tenths place

30. 8,000.99996; ten-thousandths place
