

LESSON
1-1

Rational and Irrational Numbers

Practice and Problem Solving: A/B

Write each fraction as a decimal.

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

2. $\frac{9}{16}$

3. $\frac{11}{20}$

4. $5\frac{8}{25}$

5. $\frac{14}{15}$

6. $2\frac{7}{12}$

7. $\frac{3}{100}$

8. $\frac{16}{5}$

Find the two square roots of each number.

9. 25

10. 1

11. 100

12. 4

13. 0.25

14. 0.0625

15. $\frac{4}{25}$

16. $0.\overline{4}$

Approximate each irrational number to the nearest hundredth.

17. $\sqrt{32}$

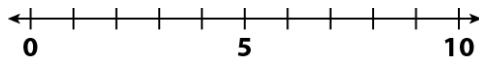
18. $\sqrt{118}$

19. $\sqrt{18}$

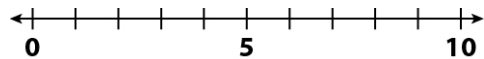
20. $\sqrt{319}$

Approximate each irrational number to the nearest hundredth. Then plot each number on a number line.

21. $\sqrt{8}$ _____



22. $\sqrt{75}$ _____



23. A tablet weighs $1\frac{2}{5}$ pounds. What is its weight written as a decimal?

24. The area of a square mirror is 256 in^2 . A rectangular mirror has a width the same as the square mirror's width. Its length is two inches longer than its width. What is the area of the rectangular mirror?

25. One nickel is $\frac{39}{500}$ inch thick. Fifteen nickels are stacked vertically. How many inches tall is the stack? Give your answer as a decimal.

26. One quarter is $\frac{191}{200}$ inch in diameter. Eight quarters are placed side-by-side along a line. How many inches long is the line of quarters? Give your answer as a decimal.
