

1-3 Homework

Simplify each expression.

1. $\sqrt{144}$

2. $\sqrt{25}$

3. $\sqrt{169}$

4. $\sqrt{49}$

5. $\sqrt{256}$

6. $\sqrt{400}$

7. $\sqrt{\frac{9}{49}}$

8. $\sqrt{\frac{196}{144}}$

9. $\sqrt{0.01}$

10. $\sqrt{0.49}$

Estimate the square root. Round to the nearest integer.

11. $\sqrt{38}$

12. $\sqrt{65}$

13. $\sqrt{99}$

14. $\sqrt{145.5}$

15. $\sqrt{23.75}$

16. $\sqrt{64.36}$

Find the approximate side length of each square figure to the nearest whole unit.

17. a tabletop with an area 25 ft^2

18. a wall that is 105 m^2

1-3 Homework (continued)

Name the subset(s) of the real numbers to which each number belongs.

19. $\frac{3}{4}$

20. -8

21. 2π

22. $45,368$

23. $\sqrt{11}$

24. $-\frac{2}{3}$

Compare the numbers in each exercise using an inequality symbol.

25. $\sqrt{36}, \sqrt{49}$

26. $\frac{1}{3}, \sqrt{1.25}$

27. $\sqrt{100}, -\sqrt{169}$

28. $\frac{34}{19}, 1.8$

Order the numbers in each exercise from least to greatest.

29. $2.75, \sqrt{25}, -\sqrt{36}$

30. $1.25, \frac{1}{3}, \sqrt{1.25}$

31. $\frac{3}{5}, -0.6, \sqrt{1}$

32. $\frac{80}{25}, \sqrt{9}, \frac{30}{9}$

33. Kate, Kevin, and Levi are comparing how fast they can run. Kate was able to run 5 miles in 47.5 minutes. Kevin was able to run 8 miles in 74 minutes. Levi was able to run 4 miles in 32 minutes. Order the friends from the fastest to the slowest.