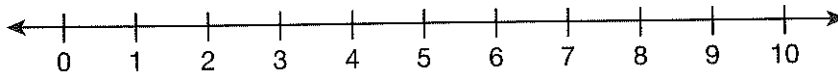


Review

Choose the best answer.

- Which number is irrational?
 - $-\frac{213}{2}$
 - $3.\overline{12}$
 - $\sqrt{64}$
 - 9.31307...
- Which is the best approximation for $\sqrt{55}$?
 - 7
 - 7.41
 - 7.42
 - 8
- Plot $\sqrt{51}$ on the following number line.



Complete each sentence.

- $\sqrt{144}$ is rational because _____.
- 10π is irrational because _____.

Approximate each number to the nearest tenth.

- | | | |
|----------------|----------------|----------------|
| 6. $\sqrt{90}$ | 7. $\sqrt{71}$ | 8. $\sqrt{72}$ |
| _____ | _____ | _____ |

Write each decimal as a fraction.

- | | | |
|---------------------|-----------------------|-----------------------|
| 9. $0.\overline{8}$ | 10. $0.\overline{89}$ | 11. $0.8\overline{6}$ |
| _____ | _____ | _____ |

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Choose the best answer.

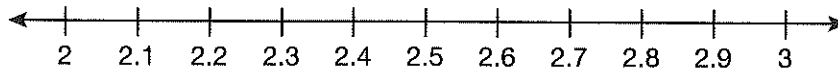
12. Which number is rational?

- A. $-\sqrt{9}$
- B. 0.010010001...
- C. $\sqrt{65}$
- D. $\sqrt{-100}$

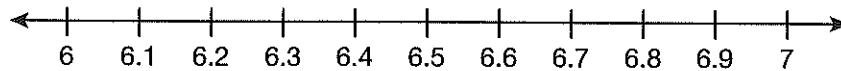
13. Which is the best approximation for $\sqrt{44}$?

- A. 6.6
- B. 6.63
- C. 6.64
- D. 7

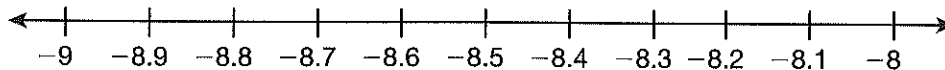
14. Plot $\sqrt{6}$ on the following number line.



15. Plot $\sqrt{47}$ on the following number line.



16. Plot $-\sqrt{77}$ on the following number line.



Write three equivalent decimals for each number.

- 17. -132 _____
- 18. 93.3 _____
- 19. 0.09 _____
- 20. -4.2323 _____

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Write each decimal as a fraction.

21. $0.\bar{3}$

22. $2.\bar{2}$

23. $0.\bar{18}$

24. $3.\bar{63}$

25. $2.\bar{90}$

26. $9.\bar{7}$

Determine the two closest integers for each irrational number.

27. $\sqrt{88}$

28. $\sqrt{5}$

29. $\sqrt{27}$

Complete each sentence. Write decimals to the hundredths place.

30. $\sqrt{33}$ is between 5.74 and _____, and it is closer to _____.

31. $\sqrt{11}$ is between _____ and _____, and it is closer to _____.

32. $\sqrt{105}$ is between _____ and _____, and it is closer to _____.

Use the situation and table to answer questions 33 and 34.

Carissa calculated the lengths of 4 hiking trails. Because some trails form a triangle or a circle, some lengths have square roots or the π symbol.

Lengths of Hiking Trails

Trail	Length (in km)
Valley View	$2.5\sqrt{4}$
Butterfly Gulch	2π
Waterfall Perch	4.275
Forest Walk	$2\sqrt{5}$

33. **IDENTIFY** Identify the trails that have irrational lengths. Explain your reasoning.

34. **LIST** List the lengths from shortest to longest. Explain your work.

