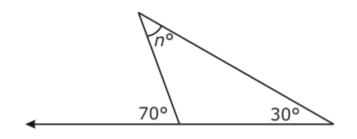
Unit 6 Real Numbers Review

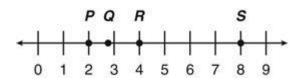
- 1. The areas of 4 different squares are listed below. Which area represents a square with a side length that is a rational number?
 - A. 24 square feet
 - B. 36 square feet
 - C. 48 square feet
 - **D.** 72 square feet
- **2.** What is the value of *n* in the figure below?



- 3. The value of $\sqrt{29}$ falls between which two integers?
- 4. Which is an irrational number?
 - **A.** √49
 - **B.** ^{5.6}
 - **C.** $\frac{\sqrt{10}}{2}$
 - **D.** $\frac{4}{5}$
- **5.** The area of a square is 9/121 square yards. What is the length of each side of the square?



6. Which point most closely corresponds to $\sqrt{8}$ on the number line below?



7. Which function is nonlinear?

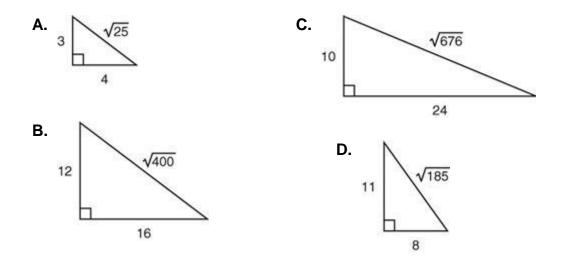
Α.	$Y = \frac{3x+1}{2}$	C. $Y = 2x(x-2)$
		D. $y = \frac{1}{2}x - 2$
В.	Y = -x	

8. When 8 is added to the number that is produced by doubling the number x, the result is equal to 8 times the number that is 5 less than x. What is the value of x?

9. Which phrase does not describe a rational number?

- A. integer number
- **B.** repeating decimal
- **C.** terminating decimal
- D. non-repeating, non-terminating decimal
- **10.** What is the *approximate* difference between $\sqrt{120}$ and $\sqrt{80}$?
- **11.** Sam made a square sign with an area of 410 square inches. What is the *approximate* perimeter of the square sign?





12. Which triangle has an irrational number as one of its side lengths?

13. Which phrase does not describe a rational number?

- A. integer number
- **B.** repeating decimal
- **C.** terminating decimal
- D. non-repeating, non-terminating decimal

14. Which fraction is equivalent to $0.\overline{6}$?

15. Which fraction is equivalent to $0.\overline{4}$?

16. $\sqrt{136}$ is between which two integers?

17. If the volume of a cube is 125 cubic inches, what is the length of each side of the cube.

18. What value of x satisfies the equation
$$\frac{-4x-2}{3} = -6$$
?

19. What fraction is equivalent to $0.\overline{55}$?



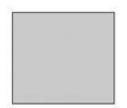
20. Which set of numbers are all irrational numbers?

A. {
$$\pi$$
, $\sqrt{2}$, $\sqrt{9}$ }
B. {-3, $\frac{-2}{7}$, $\sqrt{16}$ }
C. { $\sqrt{8}$, $\sqrt{12}$, $\sqrt{17}$ }
D. { $\sqrt{25}$, $\sqrt{36}$, $\sqrt{49}$]

- **21.** A square table has an area of 60 square feet. Between which two consecutive integers is the length of the table?
- 22. In which choice do all the points lie on the same line?
 - A. (0, -2), (1, -1), (2, 2), (3, 7)
 B. (0, 0), (1, 1), (2, 4), (3, 9)
 C. (0, 0), (1, 1), (2, 8), (3, 27)
 D. (0, 0), (1, 2), (2, 4), (3, 6)
- 23. What is the sum of all of the integers between $\sqrt{19}$ and $\sqrt{77}$

24. What is the approximate value of $\sqrt{24} + \sqrt{48}$?

25. The square below has an area of 29 square units.



The length of each side is between which 2 integers?

