

## Exponents and Roots HW

1.  $\sqrt{9} =$

2.  $\sqrt{225} =$

3.  $\sqrt{484} =$

4.  $\sqrt{196} =$

5.  $3^2 = (\underline{\quad})(\underline{\quad}) = \underline{\quad}$ , so  $\underline{\quad}$  is a square root of  $\underline{\quad}$ .

6.  $8^2 = (\underline{\quad})(\underline{\quad}) = \underline{\quad}$ , so  $\underline{\quad}$  is a square root of  $\underline{\quad}$ .

7.  $13^2 = (\underline{\quad})(\underline{\quad}) = \underline{\quad}$ , so  $\underline{\quad}$  is a square root of  $\underline{\quad}$ .

8. What is the radicand of  $\sqrt{81}$ ?  $\underline{\hspace{2cm}}$

9. Name 3 perfect squares.  $\underline{\hspace{2cm}}$ ,  $\underline{\hspace{2cm}}$ ,  $\underline{\hspace{2cm}}$

10. Which set contains all irrational numbers?

A.  $\sqrt{3}, \pi, 4\sqrt{5}$

B.  $\frac{5}{9}, \sqrt{3}, 0.\overline{3}$

C.  $0, \frac{3}{4}, 1.914$

D.  $\sqrt{\frac{1}{2}}, 2\sqrt{5}, \sqrt{25}$

12. Which phrase does not describe a rational number?

A. integer number

B. repeating decimal

C. terminating decimal

D. non-repeating, non-terminating decimal

11. Which number below is an example of a natural number?

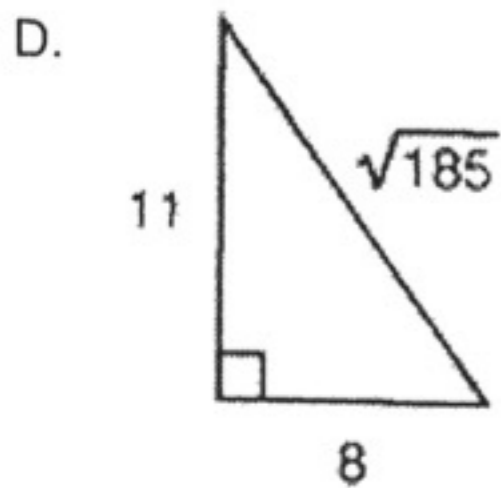
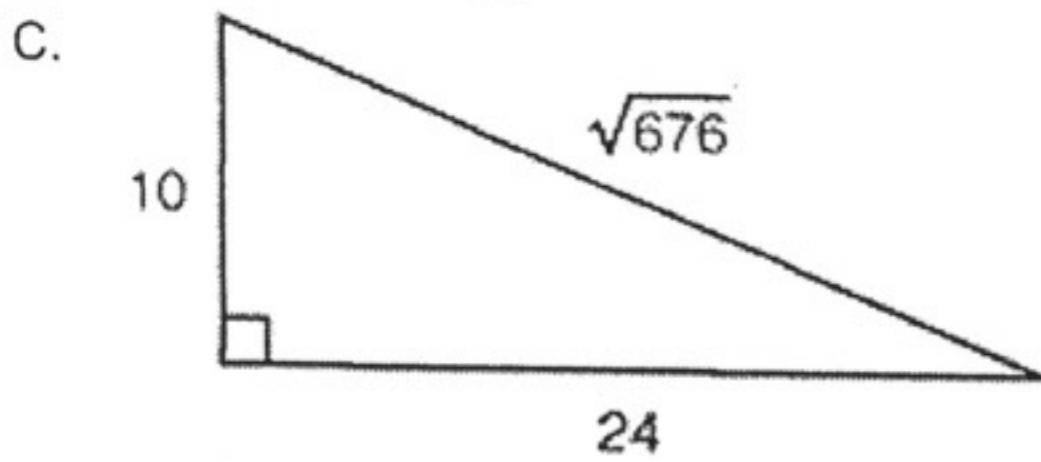
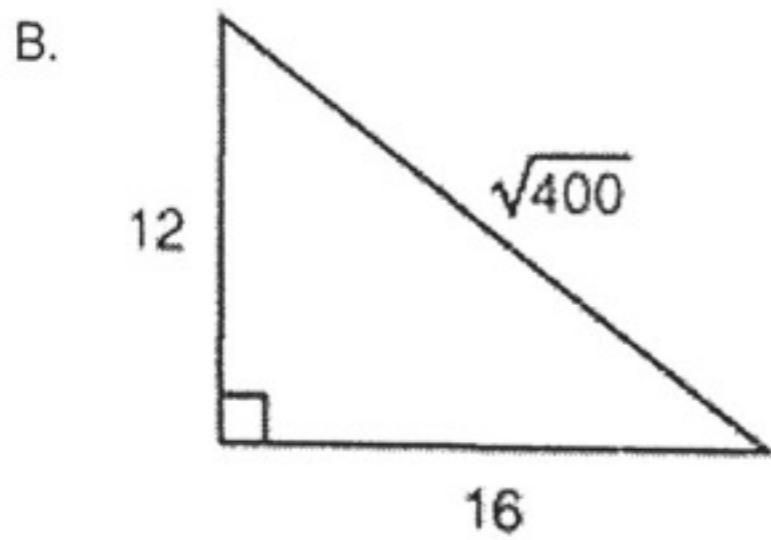
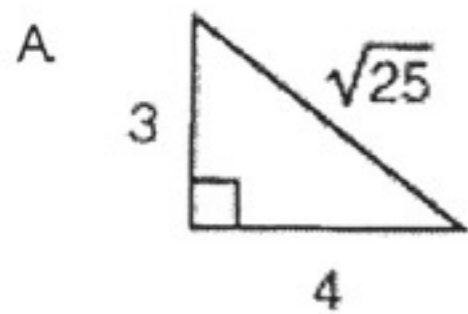
A. -2

B.  $\frac{2}{5}$

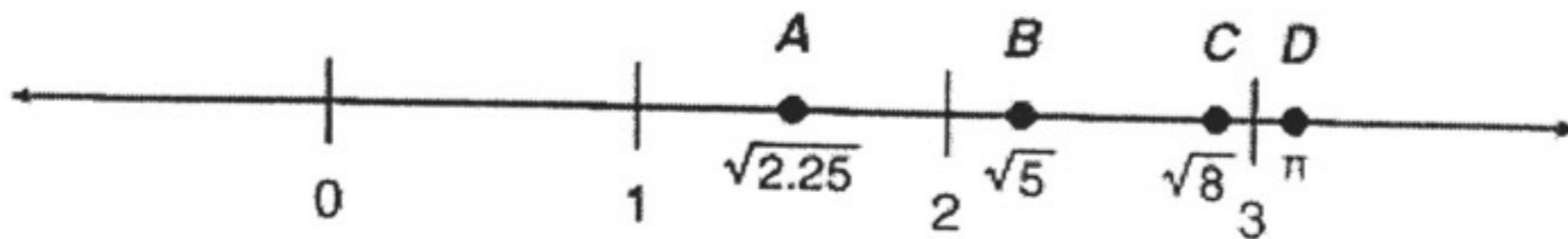
C. 3

D. 4.5

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



14. Which point on the number line represents a rational number?



- A. Point A
- B. Point B
- C. Point C
- D. Point D

15. Terri is playing a math card game and has dealt each player four math cards.

Lisa:  $2, \sqrt{2}, -5, \frac{1}{2}$

Ben:  $0.\overline{435}, 0.5, \sqrt{25}, 0$

Kari:  $\pi, 2, 6, -2$

Terri:  $\sqrt{200}, \pi, \sqrt{50}, 1.43256744376665\dots$

Which person's hand contains all rational numbers?

- A. Lisa
- B. Ben
- C. Kari
- D. Terri