

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?

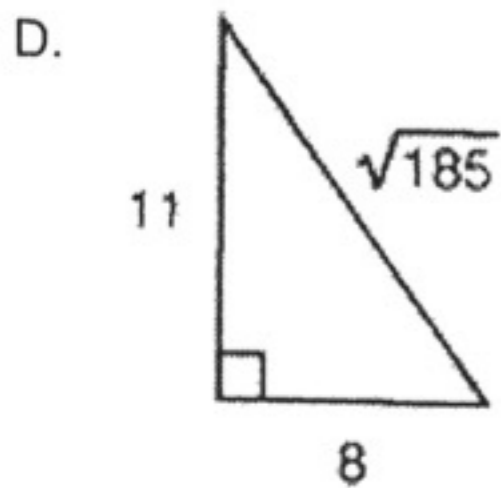
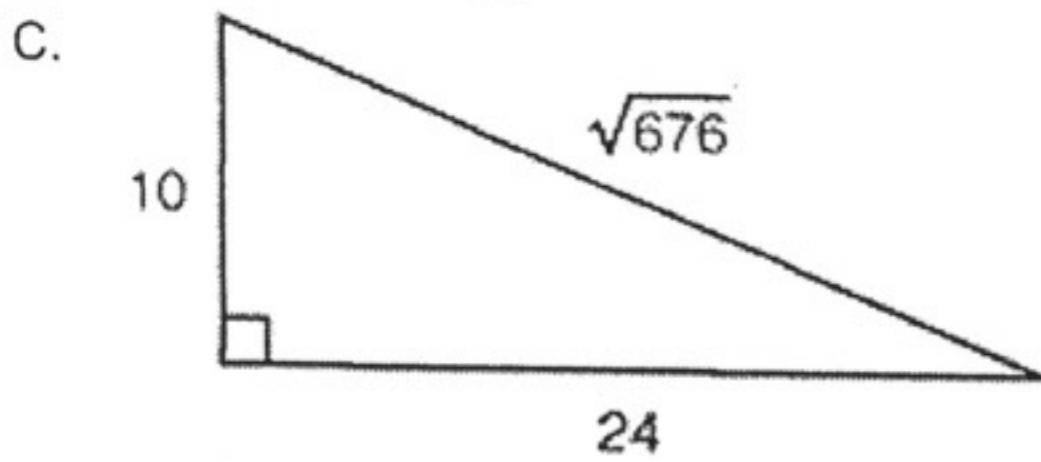
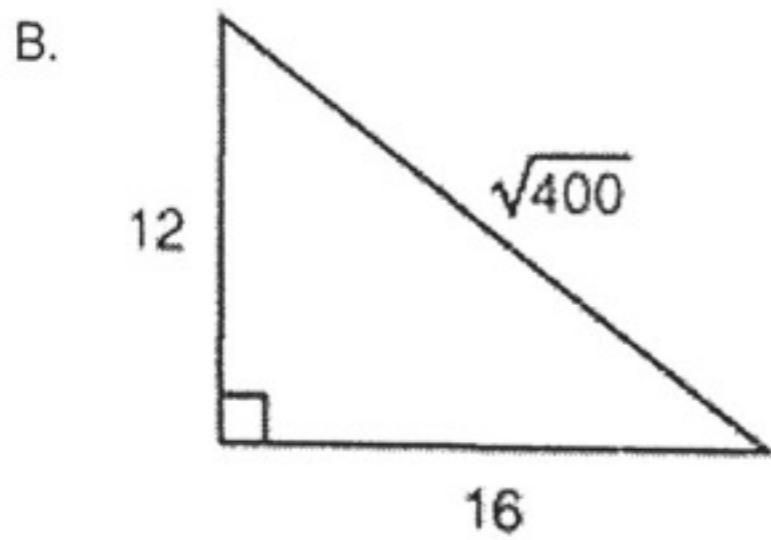
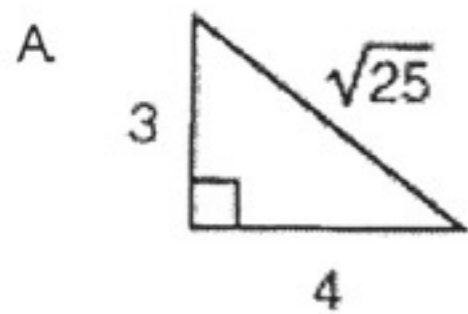
A. -2

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

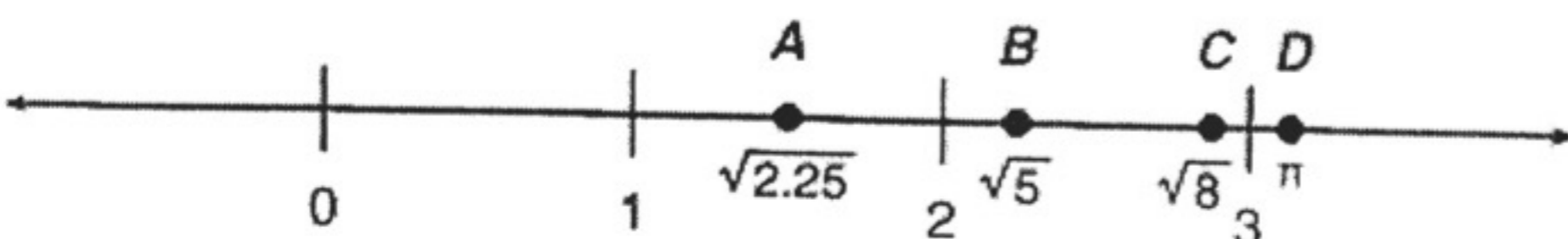
C. 3

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