

Concept 20 & 21 Practice

Complete the sentence with the correct phrase, *rational* or *irrational*.

1. A number that can be represented as a fraction is _____ number.
2. A real number that can be represented by a non-repeating, non-terminating decimal is _____.
3. Every repeating decimal represents a(n) _____ number.
4. An integer is a(n) _____ number.
5. The square root of a non- perfect square is a(n) _____ number.
6. The square root of a perfect square is a(n) _____ number.

Check the box for each number set that the given number is a part of.

| | Natural Numbers | Whole numbers | Integers | Rational numbers | Irrational numbers |
|-------------------|-----------------|---------------|----------|------------------|--------------------|
| $\sqrt{50}$ | | | | | |
| 9.25 | | | | | |
| -20 | | | | | |
| $\frac{5}{8}$ | | | | | |
| 1.2525... | | | | | |
| 4.29561... | | | | | |
| $6.\overline{26}$ | | | | | |

Evaluate the expression.

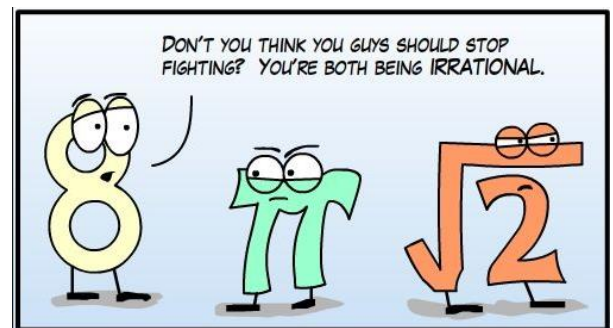
1.) $6\sqrt{2.25} - 4.2$

2.) $3\left(\sqrt{\frac{48}{3}} - 2\right)$

3.) $6 - 2\sqrt{81}$

4.) $7\sqrt{\frac{25}{49}} + \sqrt{\frac{36}{64}}$

5.) $13 + (\sqrt[3]{125})^3$



Find the missing side length of the given triangles.

