

1. Find the rational number lying between $\frac{1}{5}$ and $\frac{1}{2}$.

- a. $\frac{7}{10}$
- b. $\frac{7}{20}$
- c. $\frac{1}{7}$
- d. $\frac{1}{10}$

2. Find the value of $\sqrt{256} + \sqrt{400}$.

- a. 30
- b. 31
- c. 32
- d. 36

3. If one number is a and another number is 13 times a , the cube of the difference of the two numbers is _____.

4. Find the value of y when $3^y \times 3^y = 243$.

- a. 2
- b. 3
- c. 4
- d. 5

5. Let a and b vary inversely such that when $a = 8$, $b = 11$. Find the value of a when $b = 4$.

- a. 21
- b. 22
- c. 23
- d. 24

6. John can complete an abstract painting in 16 days. If Peter is 60% less efficient than John, then in how many days will Peter complete the abstract painting?

- a. 70
- b. 50
- c. 60
- d. 40

7. If 20% of 180 = $x\%$ of 360, then the value of x is _____.

8. A businessman purchases an item for \$12 and sells it at a profit of 14%. What will be the selling price?

- a. \$12.68
- b. \$13.68
- c. \$14.68
- d. \$15.68

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