

Rational & Irrational

Name _____

Date _____

1. What is $\frac{3}{4}$ of 60?
A) 80
C) 45
B) 15
D) 20
2. What is $\frac{5}{9} - \frac{1}{6}$?
A) $\frac{4}{9}$
C) $\frac{7}{18}$
B) $\frac{4}{3}$
D) $\frac{6}{15}$
3. What is $\frac{2}{5} + \frac{1}{10}$?
A) $\frac{1}{2}$
C) $\frac{3}{15}$
B) $\frac{3}{10}$
D) $\frac{2}{15}$
4. Simplify $5\sqrt{12} - 2\sqrt{27}$.
A) $4\sqrt{3}$
C) $16\sqrt{3}$
B) $3\sqrt{15}$
D) $4\sqrt{6}$
5. What is the value of $(\sqrt{7})^2$?
A) $\sqrt{14}$
C) 14
B) 49
D) 7
6. What is $-\frac{7}{8} + \frac{3}{8}$?
A) $-\frac{1}{2}$
C) $-\frac{10}{8}$
B) $\frac{1}{2}$
D) $-\frac{4}{16}$
7. Simplify $\sqrt{48} + \sqrt{27} - \sqrt{12}$.
A) $9\sqrt{3}$
C) $5\sqrt{3}$
B) $\sqrt{63}$
D) $5\sqrt{9}$
8. Simplify $\sqrt{50} + \sqrt{18} - \sqrt{8}$.
A) $2\sqrt{15}$
C) $10\sqrt{2}$
B) $\sqrt{60}$
D) $6\sqrt{2}$
9. What is $\frac{3}{5}$ of $\frac{2}{9}$?
A) $\frac{27}{10}$
C) $\frac{5}{14}$
B) $\frac{6}{45}$ only
D) $\frac{2}{15}$
10. What is $\sqrt{-9}$?
A) 9
C) 3
B) -3
D) It is not a real number

Answer key

1. C 2. C 3. A 4. A 5. D 6. A 7. C 8. D 9. D 10. D