

Topic: Real Numbers

Worksheet No. : 1

- 1) Find the value of $\sqrt{125} \div \sqrt{10}$
2. After rationalizing the denominator of $\frac{5}{3\sqrt{3} - 2\sqrt{2}}$ we get denominator as 7.
(a) True (b) False
3. Find the value of $\frac{3 + 3\sqrt{3}}{3 + \sqrt{3}}$
4. Find the value of $\frac{\sqrt{128} + \sqrt{28}}{\sqrt{8} + \sqrt{24}}$
5. On simplifying $5^x \times 125^{2x} = 35$ we get $x = ?$
(a) 1 (b) 3 (c) 9 (d) 8
6. $8^3 = 2^{3x}$ is equal to
(a) 2 (b) 4 (c) 8 (d) 16
7. $\frac{3}{4}(16)^{\frac{3}{4}}$ can be written as
(a) 2 (b) 8 (c) 6 (d) 12



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8. Simplified form of is $3^{\frac{2}{3}}, 3^{\frac{1}{5}}$

(a) $3^{\frac{2}{15}}$

(b) $9^{\frac{16}{15}}$

(c) $3^{\frac{2}{3}}$

(d) $3^{\frac{16}{15}}$

9. Simplified value of $(16)^{-\frac{3}{4}} \times \sqrt[4]{16}$

(a) 16

(b) 4

(c) 1

(d) 0.125

10. $-\left(\frac{1}{27}\right)^{\frac{-2}{3}}$

(a) $8\left(\frac{1}{27}\right)^{\frac{-2}{3}}$

(b) -9

(c) $\frac{1}{9}$

(d) $27\sqrt{27}$

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