

TOPIC: - SMPLIFICATION

PRACTICE SET

1. If the square root of 841 is 29 then square root of 0.00000841 is equal to:
a) 0.029
b) 0.0029
c) 0.00029
d) 0.29
2. The square root of a positive number less than 100 lies between:
a) 0 and 1000
b) 0 and 10
c) -10 and 10
d) -100 and 100
3. By which the smallest no. 1323 must be multiplied, so that it becomes a perfect cube?
a) 2
b) 3
c) 5
d) 7
4. On simplification $3034 - (1002 + 20.04)$ is equal to:
a) 3029
b) 2984
c) 2993
d) 2543
5. The value of $\frac{\sqrt{80} - \sqrt{112}}{\sqrt{45} - \sqrt{63}}$
a) $\frac{3}{4}$
b) $1\frac{3}{4}$
c) $1\frac{1}{3}$
d) $1\frac{7}{9}$
6. The square root of $(272^2 - 128^2)$ is:
a) 256
b) 200
c) 240
d) 144
7. If the sum of two numbers is 22 and the sum of their squares is 404, then the product of the number is:
a) 40
b) 44
c) 80
d) 88
8. One third of square root of which number is 0.001?
a) 0.0009
b) 0.000001
c) 0.00009
d) None of these
9. The digit at the unit's place in the square root of 15876 is:
a) 8
b) 6
c) 4
d) 2
10. The square root of $(7 + 3\sqrt{5})(7 - 3\sqrt{5})$
a) 4
b) $\sqrt{5}$
c) $3\sqrt{5}$
d) 2
11. The value of $\sqrt{32} - \sqrt{128} + \sqrt{50}$
a) 1.732
b) 1.141
c) 1.414
d) 1.441
12. $\sqrt{\frac{48.4}{0.289}}$ is equal to
a) $129\frac{7}{17}$
b) $1\frac{5}{17}$
c) $12\frac{16}{17}$
d) $12\frac{1}{17}$

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13. The number whose square is equal to the difference of the squares of 75.15 and 60.12, is
- a) 46.09
 - b) 48.09
 - c) 45.09
 - d) 47.09
14. The sum of the squares of two numbers is 386. if one of the number is 5, the other will be

- a) 18
 - b) 19
 - c) 15
 - d) 20
15. The sum of the cubes of the numbers 22,-15 and -7 is equal to
- a) 6930
 - b) 9630
 - c) 3
 - d) 0



SOLUTIONS

1. b
2. c
3. d
4. b
5. c
6. c
7. a
8. d
9. b
10. d
11. c
12. c
13. c
14. b
15. a

