Al Amal Learning Center

Class 9 Maths Chapter 1 Exercise 1.2 MCQ Quiz | Real Numbers FBISE

Class 9 Mathematics · Chapter 1: Real Numbers

Name: _____ Date: _____ Score: _____ / 40

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1. ?6 · ?6 written as a single radical is:

A) ?12
B) ?36
C) ??36
D) 6

2. ??4 · ??8 simplifies to:

A) 4
B) ??12
C) 2
D) 32

3. ??x · ??x³ simplifies to:

A) x^2
B) ??x^3
C) x^3
D) x

4. ??x? ÷ ??x? simplifies to:

A) x^2
B) ?x
C) ??x
D) x^{12}

5. ?5000 ÷ ?5 simplifies to:

A) 100
B) 1000
C) 10
D) ?995

6. ?500 ÷ ?5 simplifies to:

A) 10
B) ?495
C) 100
D) ?100

7. ?10 · ?11 written as a single radical (common index) is:

A) ??110
B) ??110
C) ??121000
D) ??(10 + 11)

8. The value of $(216)^{2}?^{3}$ is:

A) 6
B) 72
C) 144
D) 36

9. $(29)^{1}?^{2}$ written as a radical expression is:

A) ?29
B) ?29
C) 29/2
D) 29^{2}

10. $(1/32)^{1}??$ equals:

A) 2
B) 1/4
C) 1/2
D) 1/160

11. $(1000)^{1}?^{3}$ equals:

A) 10
B) 100
C) 3
D) 333.3

12. $(1/39)^{-1}?^{2}$ written as a radical is:

A) 1/?39
B) -?39
C) 39^{2}
D) ?39

13. $(?5)^{2}$ written as an exponential expression is:

A) $5^{3}?^{2}$
B) $5^{2}?^{3}$
C) $5^{1}??$
D) 5?

14. (??10)? simplifies to:

A) 20
B) 1000
C) 100
D) $10^{1}?^{2}$

15. -(?6)? simplifies to:

A) 36
B) -18
C) -216
D) -36

16. (2187 a? b¹? / a¹² b³)¹??, using 2187 = 3?, simplifies to:

A) 3a / b²
B) 3b² / a
C) 3ab²
D) b² / 3a

17. ??(a³/b³) × ??(b³/c³) × ??(c³/a³) simplifies to:

A) 0
B) abc
C) 3
D) 1

18. Which law of exponents is used in x^p · x^q = x^(p+q)?

A) Quotient law
B) Product law
C) Power law
D) Zero exponent law

19. (x^p / x^q)^(p+q) simplifies to:

A) x^(p+q)
B) x^(p-q)
C) x^(p²-q²)
D) x^(p²+q²)

20. The value of 16¹?? is:

A) 2
B) 4
C) 8
D) 1/4

21. ?3 · ?12 written as a single radical and simplified is:

A) ?15
B) 6
C) 36
D) 3?2

22. ?2 · ?4 simplifies to:

A) ?6
B) 8
C) 2
D) 6

23. ?48 ÷ ?3 simplifies to:

A) 16
B) 4
C) ?45
D) 2

24. ?54 ÷ ?2 simplifies to:

A) 3
B) 27
C) ?52
D) 9

25. The value of $(8)^{1}?^{3}$ is:

A) 4
B) 2
C) 8/3
D) 24

26. The value of $(81)^{1}??$ is:

A) 9
B) 20.25
C) 3
D) 27

27. The value of $(27)^{2}?^{3}$ is:

A) 18
B) 3
C) 81
D) 9

28. The value of $(32)^{3}??$ is:

A) 8
B) 6
C) 16
D) 96

29. The value of $(4)^{-1}?^{2}$ is:

A) -2
B) 1/2
C) 2
D) -1/2

30. The value of $(125)^{-1}?^{3}$ is:

A) -5
B) 1/5
C) 5
D) -1/5

31. $x^{3}??$ written as an equivalent radical expression is:

A) $^{3}?(x?)$
B) $??(x^{3})$
C) $x??^{3}$
D) ??x

32. ??(a^2) written as an exponential expression is:

A) a??^{2}
B) a^2??
C) a?
D) a^1?

33. 2^1?^{2} · 2^3?^{2} is equal to:

A) 2^3??
B) 8
C) 2
D) 4

34. (3^1?^{2})? is equal to:

A) 3^1??
B) 9
C) 6
D) 81

35. 5^2?^{3} ÷ 5^-^{1}?^{3} is equal to:

A) 5^1?^{3}
B) 25
C) 5
D) 5^-^{2}??

36. The value of 7? is:

A) 0
B) 7
C) 1
D) undefined

37. (x^2?^{3})^3?^{2} simplifies to:

A) x???
B) x
C) x???
D) x^{13}??

38. (16/81)^1?? is equal to:

A) 4/9
B) 2/9
C) 2/3
D) 8/27

39. Which law of exponents is used in (a?)? = a???

A) Product law
B) Quotient law
C) Power of a power law
D) Zero exponent law

40. x? ÷ x² simplifies to:

A) x??²

B) x?

C) x³

D) x¹?

Answer key

1-B 2-C 3-D 4-B 5-C 6-D 7-C 8-D 9-B 10-C

11-A 12-D 13-B 14-C 15-D 16-B 17-D 18-B 19-C 20-A

21-B 22-C 23-B 24-A 25-B 26-C 27-D 28-A 29-B 30-B

31-B 32-B 33-D 34-B 35-C 36-C 37-B 38-C 39-C 40-C