Al Amal Learning Center

Class 9 Mathematics Chapter 2: Logarithms Exercise 2.6 MCQs – Online Practice | FBISE

Class 9 Mathematics · Chapter 2: Logarithms

Name: _____ Date: _____ Score: _____ / 20

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1. How many digits are in 3^{30}? (Use $\log 3 = 0.4771$.)

A) 14
B) 15
C) 16
D) 30

2. How many digits are in 100^{100}?

A) 100
B) 200
C) 201
D) 10,000

3. How many digits are in 5^{37}? (Use $\log 5 = 0.6990$.)

A) 25
B) 26
C) 27
D) 37

4. How many digits are in 529^{30}? (Use $\log 529 = 2.7235$.)

A) 81
B) 82
C) 83
D) 30

5. How many digits are in 2^{50}? (Use $\log 2 = 0.3010$.)

A) 15
B) 17
C) 16
D) 50

6. How many digits are in 7^{20}? (Use $\log 7 = 0.8451$.)

A) 16
B) 17
C) 18
D) 20

7. How many digits are in 23^{15}? (Use $\log 23 = 1.3617$.)

A) 20
B) 21
C) 22
D) 15

8. Using logarithms, the value of 12.5×8 is

A) 10
B) 96
C) 100
D) 1000

9. Using logarithms, the value of $\sqrt{196}$ is

A) 13
B) 14
C) 98
D) 16

10. Using logarithms, the value of 6.4×2.5 is

A) 1.6
B) 15
C) 160
D) 16

11. Using logarithms, the value of $\sqrt[3]{64}$ is

A) 4
B) 8
C) 16
D) 21.3

12. Using logarithms, the value of $(2.5)^3$ is approximately

A) 7.5
B) 1.56
C) 156
D) 15.6

13. Using logarithms, the value of 3.5×6.4 is

A) 22.4
B) 2.24
C) 224
D) 9.9

14. If $M = \log \left(\dfrac{I}{I_0}\right)$ and $M = 3$, then $\dfrac{I}{I_0} =$

A) 3
B) 30
C) 1000
D) 0.001

15. The 1920 Kansu earthquake measured 8.5 and the 1923 Tokyo earthquake measured 7.8. The 1920 earthquake was about how many times stronger?

A) 0.7 times
B) 5 times
C) 10 times
D) 66 times

16. The 2005 Pakistan earthquake measured 7.6 and the 1978 China earthquake measured 8.2. The China earthquake was about how many times stronger?

A) 2 times
B) 0.6 times
C) 6 times
D) 4 times

17. An earthquake of magnitude 7 compared to one of magnitude 5 is

A) 2 times stronger
B) 10 times stronger
C) 100 times stronger
D) 1000 times stronger

18. An earthquake of magnitude 8 compared to one of magnitude 5 is

A) 3 times stronger
B) 100 times stronger
C) 1000 times stronger
D) $10{,}000$ times stronger

19. An earthquake of magnitude 7.2 compared to one of magnitude 6.2 is

A) 10 times stronger
B) 1 time stronger
C) 100 times stronger
D) 1.16 times stronger

20. The Richter scale for measuring earthquakes is

A) linear
B) logarithmic
C) exponential decay
D) none of these

Answer key

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

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