

MCAT Estimation Practice

1) $\frac{1.3 \times 10^{-22}}{(6.22 \times 10^{-33})(9 \times 10^{42})}$

- a. 2.28×10^{-33}
- b. 5.62×10^{-22}
- c. 2.75×10^{-12}
- d. 2.63×10^{10}

2) $\frac{262 \times 20}{6.1 \times 10^{20}}$

- a. 6.72×10^{-20}
- b. 2.31×10^{-19}
- c. 8.59×10^{-18}
- d. 1.75×10^{-15}

3) $\frac{368 \times 21}{7.8 \times 10^{-5}}$

- a. 5.6×10^6
- b. 1.2×10^7
- c. 9.9×10^7
- d. 8.6×10^8

4) $\frac{\log(1015) \times 52}{5012}$

- a. 3.52×10^{-3}
- b. 3.12×10^{-2}
- c. 6.76×10^{-2}
- d. 3.36×10^2

5) $\frac{-\log(9 \times 10^{-22})}{22}$

- a. -0.98
- b. 0.96
- c. 1.02
- d. 5.32

6) $\frac{(532 \times 10^{-6})(0.32 \times 10^3)}{106 \times 10^{-3}}$

- a. 0.016
- b. 0.23
- c. 1.61
- d. 2.23

7) $\frac{526 \times 25}{10^4} + \frac{2520}{10^5} + \frac{500}{10^3}$

- a. 0.0092
- b. 1.84
- c. 52.61
- d. 652.73

8) $\frac{1}{5} + \frac{2}{21} + \frac{3}{38}$

- a. 0.00582
- b. 0.0362
- c. 0.374
- d. 0.482

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9) $\frac{1}{0.5} + \frac{1}{0.2} + \frac{1}{0.3}$

- a. 0.052
- b. 1.00
- c. 10.33
- d. 15.32

10) $3 + \frac{1}{0.01} + \frac{5}{0.5}$

- a. 3.01
- b. 3.10
- c. 113
- d. 152

11) $\frac{1}{0.82} + \frac{1}{0.02} + \frac{1}{0.21}$

- a. 0.0623
- b. 0.952
- c. 42.82
- d. 55.98

12) $\frac{1}{0.002} + \frac{1}{0.53} + \frac{1}{0.021}$

- a. 0.00526
- b. 0.583
- c. 345.32
- d. 549.51

13) $\frac{-\log(3 \times 10^{-5})}{6.2 \times 10^{-4}}$

- a. 0.0782
- b. 7294.97
- c. 70230.52
- d. 734005.23

14) $\frac{-\log(0.00012)}{4.62}$

- a. 0.846
- b. 1.342
- c. 8.25
- d. 10.82

15) $\frac{\log(8 \times 10^2) \times \log(0.002)}{-\log(0.009)}$

- a. -5.32
- b. -3.82
- c. 1.02
- d. 4.26

16) $\frac{\sqrt{400}}{\sqrt{4.9 \times 10^{-5}}}$

- a. 2.8×10^1
- b. 8.2×10^2
- c. 1.3×10^3
- d. 2.9×10^3

