

Mathematical Composition Quiz

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Directions: Choose the correct response from the options given for the following questions on mathematical composition based on your understanding of chapter 21 of the *AMA Manual of Style*.

1. Select an alternate correct way to present the following formula:

$$a + \frac{b + c}{d} + e$$

- a. $a + b + c/d + e$
- b. $\frac{a + b + c}{d + e}$
- c. $a + [(b + c)/d] + e$
- d. all of the above

2. Which of the following is the correct way to express velocity (meters per second):

- a. m/s
- b. $\frac{m}{s}$
- c. $m \bullet s^{-1}$
- d. all of the above

3. In the following formula, indicate which item(s) should be boldface: $V = (A)(B^2) \pi/6$.

- a. V
- b. A
- c. B^2
- d. none of the above

4. Which of the following sentences is correctly punctuated:

- a. The percentage of tumor inhibition was calculated using the following formula:

$$[1 - (T/C)] \times 100,$$

where T and C represent the mean tumor volumes of the treatment group and the control group, respectively.

- b. The percentage of tumor inhibition was calculated using the following formula $[1 - (T/C)] \times 100$ where T and C represent the mean tumor volumes of the treatment group and the control group, respectively.
- c. The percentage of tumor inhibition was calculated using the following formula $[1 - (T/C)] \times 100$, where T and C represent the mean tumor volumes of the treatment group and the control group, respectively
- d. none of the above

5. Which of the following is the correct way to rewrite the radical $\sqrt{a^2 - b^2}$:

- a. $a^2 - b^2/1/2$
- b. $a^2 - b^{2\frac{1}{2}}$
- c. $(a^2 - b^2)^{\frac{1}{2}}$
- d. none of the above

6. Which of the following symbols means base of the system of natural logarithms:

- a. π
- b. e
- c. i
- d. none of the above

7. Which of the following equations is correctly capitalized:

- a. $PAR_{unadjusted} = [Prevalence \times (Relative Risk - 1)]/[Prevalence \times (Relative Risk - 1) + 1]$
- b. $PAR_{unadjusted} = [prevalence \times (relative risk - 1)]/[prevalence \times (relative risk - 1) + 1]$
- c. $PAR_{unadjusted} = [Prevalence \times (Relative risk - 1)]/[Prevalence \times (Relative risk - 1) + 1]$
- d. none of the above



8. Which of the following equations is typeset correctly:

- a. $Y + E = r$ and $E + L + r = \text{Normal Corneal Diameter } (11 \text{ mm}/2) = 5.5 \text{ mm}$
- b. $Y + E = r$ and $E + L + r = \text{Normal Corneal Diameter } (11 \text{ mm}/2) = 5.5 \text{ mm}$
- c. $Y + E = r$ and $E + L + r = \text{Normal Corneal Diameter } (11 \text{ mm}/2) = 5.5 \text{ mm}$
- d. none of the above

9. Which is the best way to present the following equation:

- a. Body mass index is calculated as weight in kilograms divided by height in meters squared.
- b. body mass index = wt (kg)/ht (m²)
- c. Body Mass Index = Weight (in Kilograms)/Height (in Meters Squared)
- d. Body Mass Index = Weight^{kg}/Height^{m²}

10. Which of the following equations correctly uses brackets, parentheses, and braces:

- a. $\{4 + (-1[2 - 1])\}^2$
- b. $[4 + \{-1(2 - 1)\}]^2$
- c. $(4 + [-1\{2 - 1\}])^2$
- d. $\{4 + [-1(2 - 1)]\}^2$

