

MULTIPLE CHOICE

BASICS - PRACTICE SET - ANSWER KEY

PROPOSED FOR REVIEW - questions are the author's verbatim Q&A; distractors are auto-selected from other answers in the same bank and must be checked by a subject-matter reviewer (a distractor could coincidentally be correct). Not authoritative assessment content.

1. A number followed by the word percent is what type of value?

- A. An area unit
- B. A frequency unit
- C. A length unit
- D. Unitless**

2. What power of ten represents one hundredth?

- A. 10^2
- B. 10^{-1}
- C. 10^{-3}
- D. 10^{-2}**

3. What does the metric prefix deca mean?

- A. Tenth
- B. Ten**
- C. Hundred
- D. Thousand

4. What does the metric prefix milli mean?

- A. Thousand
- B. Thousandth**
- C. Hundredth
- D. Millionth

5. What does the metric prefix mega mean?

- A. Million**
- B. Thousand
- C. Millionth
- D. Billion

6. What does directly related mean?

- A. When both variables are multiplied to equal 1
- B. When one variable increases, the other increases**
- C. When one variable changes and the other stays constant
- D. When one variable increases, the other decreases

7. What phrase means to divide a value?

- A. Decrease by a factor**
- B. Add a constant
- C. Square the value
- D. Increase by a factor

8. What is another term for inversely related?

- A. Unrelated
- B. Constant
- C. Directly proportional
- D. Inversely proportional**

9. What power of ten represents one million?

- A. 10^6
- B. 10^{-6}
- C. 10^3
- D. 10^9

10. How many hertz are in 6 MHz?

- A. 600,000 Hz
- B. 6,000 Hz
- C. 60,000 Hz
- D. **6,000,000 Hz**

11. In the metric system, what prefix and meaning are represented by the symbol micro?

- A. Milli, thousandth
- B. **Micro, millionth**
- C. Mega, million
- D. Nano, billionth

12. What power of ten represents one billion?

- A. **10^9**
- B. 10^{-9}
- C. 10^6
- D. 10^3

13. How is the height of a cow related to the color of its milking barn?

- A. Directly related
- B. **Unrelated**
- C. Inversely related
- D. Reciprocally related

14. In the metric system, what prefix and meaning are represented by the symbol h?

- A. Deca, ten
- B. Kilo, thousand
- C. **Hecto, hundred**
- D. Centi, hundredth

15. Which units are used to measure area?

- A. Linear units such as cm or feet
- B. **Square units such as cm^2 or ft^2**
- C. Cubic units such as cm^3 or ft^3
- D. Frequency units such as Hz or MHz

16. What does related mean when comparing two variables?

- A. **The variables are associated with each other**
- B. The variables have no association
- C. The variables are always equal
- D. The variables must have the same units

17. What does the metric prefix deci mean?

- A. Hundredth
- B. Thousandth
- C. Ten
- D. **Tenth**

18. What is another term for the y-axis of a graph?

- A. **Vertical axis**
- B. Diagonal axis
- C. Time axis
- D. Horizontal axis

19. What does the metric prefix kilo mean?

- A. Thousandth
- B. **Thousand**
- C. Hundred
- D. Million

20. In the metric system, what prefix and meaning are represented by the symbol c?

- A. Deci, tenth
- B. Hecto, hundred
- C. Centi, hundredth**
- D. Milli, thousandth

21. What power of ten represents one millionth?

- A. 10^6
- B. 10^{-6}**
- C. 10^{-3}
- D. 10^{-9}

22. What is another term for the x-axis of a graph?

- A. Diagonal axis
- B. Horizontal axis**
- C. Depth axis
- D. Vertical axis

23. What does the metric prefix centi mean?

- A. Hundred
- B. Tenth
- C. Thousandth
- D. Hundredth**

24. Square miles are units of what quantity?

- A. Area**
- B. Length
- C. Volume
- D. Time

25. Which units are used to measure volume?

- A. Cubic units such as cm^3 or ft^3**
- B. Frequency units such as Hz or MHz
- C. Linear units such as cm or feet
- D. Square units such as cm^2 or ft^2