

Quiz for 9/6/19. Dimensional Analysis, Vocabulary and Solving Equations. Don't write on test (use the bubble sheet). Test Protocols are in effect today.

1. Two operations that undo each other
 - a) unit Conversion
 - b) unit rate
 - c) inverse operations
 - d) converting units

2. A comparison of two quantities by division
 - a) rate
 - b) equation
 - c) unit rate
 - d) ratio

3. numbers and/or variables separated by + or - signs that make up a mathematical expression.
 - a) converting units
 - b) rate
 - c) expression
 - d) Term

4. The process of changing one unit of measure to another.
 - a) Polynomial
 - b) unit Conversion
 - c) inverse operations
 - d) unit of measure

5. A mathematical expression that contains an equals sign.
 - a) polynomial
 - b) equation
 - c) ratio
 - d) expression

6. A rate with a denominator of 1.
 - a) unit rate
 - b) equation
 - c) expression
 - d) rate

7. a system of measurement based on the number 10. Standard for science everywhere.
 - a) imperial (English) system
 - b) expression
 - c) unit of measure
 - d) metric system

8. A standard quantity of something - size, length, weight, volume, time, etc.
 - a) expression
 - b) unit Conversion
 - c) unit of measure
 - d) converting units

9. Two operations that undo each other.
- a) Inverse operations
 - b) unit Conversion
 - c) unit of measure
 - d) dimensional analysis
10. A math expression made up of terms separated by + or - signs.
- a) unit Conversion
 - b) monomial
 - c) polynomial
 - d) unit rate
11. A ratio that compares two quantities measured in different units
- a) unit rate
 - b) ratio
 - c) equation
 - d) rate
12. A way to analyze and solve problems using the units, or dimensions, of the measurements
- a) unit of measure
 - b) expression
 - c) dimensional analysis
 - d) converting units
13. An arithmetical multiplier for converting a quantity expressed in one set of units into an equivalent expressed in another
- a) unit of measure
 - b) dimensional analysis
 - c) inverse operations
 - d) conversion factor
14. A mathematical phrase that contains operations, numbers, and/or variables.
- a) unit of measure
 - b) equation
 - c) polynomial
 - d) expression
15. Measurements using feet, inches and pounds. Standard in the U.S. and Great Britain.
- a) Metric system
 - b) dimensional analysis
 - c) converting units
 - d) Imperial (English) system

16. Convert 25 kilograms (kg) to meters (m)

- a) .025 m
- b) 2.5 m
- c) 2,500 m
- d) 25,000 m

17. How many centimeters are in 1 foot?

- a) 4.72 cm
- b) 12 inches
- c) 30.48 cm
- d) 254 cm

18. Convert 30 yards per second to feet per second

- a) 10 ft per second
- b) 60 ft per second
- c) 30 ft per second
- d) 90 ft per second

Solve the Equation:

19. $23 = x - 32$

- a) -55
- b) 55

- c) 9
- d) -9

20. $\frac{y}{5} = -15$

- a) -20
- b) 75

- c) -75
- d) 3

21. $4(y-7) = -16$

- a) 1
- b) 11

- c) 3
- d) -11

22. $-6y + 14 = 32 - 4y$

- a) -9
- b) -3.6

- c) 3.6
- d) 9

23. $\frac{8}{9}x - 4 = 3$

- a) $8\frac{5}{8}$

- c) 8

- b) $6\frac{2}{9}$

- d) $7\frac{7}{8}$

24-25 Set up the way you would answer this question. What Unit Rates would you use? Use either the picket fence method OR the daisy-chain method to show how you would solve this.

Convert 20 miles per hour to feet per second

Unit Rate(s)

Given Information:	Converting Fraction(s):	Answer:
---------------------------	--------------------------------	----------------