Basic Mathematics

1. Add the following:
   
   
   \[ 2.06 + 5.384 \]
   

2. Subtract the following:
   
   
   \[ 0.96 - 0.1359 \]
   

3. Multiply the following:
   
   
   \[ 3 \times 0.5 \]
   

4. Divide the following and display to the third decimal place:
   
   
   \[ 20.6 \div 0.21 \]
   

5. Write the following as decimals:
   
   
   three and sixteen thousandth
   

6. Change the following decimal to a fraction and reduce:
   
   
   \[ 0.492 \]
   

7. Change the following to a decimal:
   
   
   \[ 9 \frac{1}{8} \]
8. Write $\frac{1}{8}$ as a decimal:

_________________________________

9. Write 0.014 as a percent:

_________________________________

10. Change the following to a whole or mixed number:

\[
\frac{32}{6}
\]

_________________________________

11. Change the following into an improper fraction:

\[
6 \frac{3}{4}
\]

_________________________________

12. Find the lowest common denominator (bottom number) in the following:

\[
\frac{4}{8} \text{ and } \frac{3}{4}
\]

_________________________________

13. Add the following:

\[
2 \frac{2}{3} + 4 \frac{4}{5} + 5 \frac{1}{6}
\]

_________________________________

14. Subtract the following:

\[
7 \frac{1}{7} - 4 \frac{5}{6}
\]

_________________________________

15. Multiply the following and reduce to lowest terms:

\[
\frac{2}{3} \times \frac{3}{8}
\]

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16. Divide the following and reduce to lowest terms:

\[ 2 \frac{2}{3} \div 1 \frac{1}{2} \]

17. Reduce the following fraction to the lowest term:

\[ \frac{3}{18} \]

18. Change the following to a ratio expression:

\[ 0.3 \]

19. A whole number is known as an integer.

True  
False

20. A proper fraction is where the numerator is larger than the denominator.

True  
False

21. A mixed number can be converted to a proper fraction.

True  
False

22. A percentage is parts per thousand parts.

True  
False

23. When a number is divided by one of its factors, the answer is a whole number (i.e., there is no remainder).

True  
False
24. Divide 569 by 10 and write your answer as a decimal.

_________________________________

25. Change the fraction $\frac{5}{8}$ to an exact decimal equivalent.

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Answer Key to Mathematics: Quiz 2

Q01 2.06 + 5.384 = 7.444
Q02 0.96 - 0.1359 = 0.8241 or .8241
Q03 3 x 0.5 = 1.5 or 1.50
Q04 20.6 ÷ 0.21 = 98.095
Q05 3 + 16/1000 = 3.016
Q06 492/1000 = 246/500 = 123/250
Q07 9 + (1 ÷ 8) = 9.125
Q08 1 ÷ 8 = 0.125 or .125
Q09 0.014 x 100 = 1.4% or 1.4
Q10 32 ÷ 6 = 5 1/3 or 5 2/6
Q11 (6 x 4) + 3)/4 = 27/4
Q12 4/8 = 2/4; therefore 4 is the lowest common denominator.
Q13 2 20/30 + 4 24/30 + 5 5/30 = 11 49/30 or 12 19/30
Q14 7 1/7 = 7 6/42 = 300/42; 4 5/6 = 4 35/42 = 203/42; 300/42 – 203/42 = 97/42 or 2 13/42
Q15 (2 x 3) / (3 x 8) = 6/24 = 1/4
Q16 2 2/3 = 8/3; 1 ½ = 3/2; 8/3 x 2/3 = 16/9 = 1 5/9
Q17 3 ÷ 3 = 1; 16 ÷ 3 = 6; therefore reduced fraction is 1/6
Q18 0.3 /10 = 3/100 = 3:100
Q19 True. A whole number is a number without fractions and is also known as an integer.
Q20 False. In a proper fraction, the numerator is smaller than the denominator, e.g., ¼
Q21 False. A mixed number can be converted into an improper fraction, e.g., 1 5/8 = 13/8
Q22 False. Percent means parts per hundred parts, not thousand parts.
Q23 True, e.g., 12 ÷ 4 = 3
Q24 569 ÷ 10 = 56.9
Q25 5 ÷ 8 = 0.625 or .625