

## Basic Mathematics

1. Add the following:

$$16.23 + 13.706$$

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2. Subtract the following:

$$2.012 - 0.963$$

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3. Multiply the following:

$$1.45 \times 0.0016$$

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4. Divide and display to the third decimal place:

$$7.14 \div 14.304$$

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5. Write the following as decimals:

forty seven thousands

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6. Change the following decimal to a fraction and reduce:

$$0.614$$

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7. Change the following to a decimal:

$$\frac{50}{200}$$

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8. Write 17% as a fraction:

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

$$\frac{36}{7}$$

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10. Change the following into an improper fraction:

$$9\frac{1}{2}$$

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

$$\frac{2}{5} \text{ and } \frac{5}{9}$$

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12. Add the following:

$$1\frac{1}{2} + 3\frac{1}{8} + 2\frac{1}{6}$$

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13. Subtract the following:

$$8\frac{1}{4} - 3\frac{3}{8}$$

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14. Multiple the following and reduce to lowest terms:

$$\frac{2}{8} \times 1\frac{1}{3}$$

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15. Divide the following and reduce to lowest terms:

$$1\frac{1}{8} \div 2\frac{1}{2}$$

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16. Reduce the following fraction to the lowest term:

$$\frac{4}{19}$$

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17. Calculate the following percent:

$$15\% \text{ of } 63$$

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18. Change the following to a ratio expression:

$$2.5\%$$

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19. The top number in a fraction is called the denominator.

True  
False

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

True  
False

21. A number such as  $1\frac{1}{4}$  is a decimal number.

True  
False

22. Four parts per 10,000 = 0.04%

True  
False

23. Multiply 0.0258 by 10, and round off to two decimal places.

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24. Which of the following a factors of 48?

2  
3  
5  
7  
4  
12

25. Change the fraction  $\frac{31}{40}$  to its exact decimal equivalent.

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## Answer Key to Mathematics: Quiz 4

- Q01  $16.23 + 13.706 = 29.936$
- Q02  $2.012 - 0.963 = 1.049$
- Q03  $1.45 \times 0.0016 = 0.00232$  or  $.00232$
- Q04  $7.14 \div 14.304 = 0.499$  or  $.499$
- Q05  $47/1000 = 0.047$  or  $.047$
- Q06  $614/1000 = 307/500$
- Q07  $50 \div 200 = 0.25$  or  $.25$
- Q08  $17/100$
- Q09  $36 \div 7 = 5 \frac{1}{7}$
- Q10  $((9 \times 2) + 1)/2 = 19/2$
- Q11  $5 \times 9 = 45$
- Q12  $1 \frac{12}{24} + 3 \frac{3}{24} + 2 \frac{4}{24} = 6 \frac{19}{24}$
- Q13  $8 \frac{1}{4} = 8 \frac{2}{8} = 66/8 - 27/8 = 39/8 = 4 \frac{7}{8}$
- Q14  $1 \frac{1}{3} = 4/3; (2 \times 4) / (8 \times 3) = 8/24$  or  $1/3$
- Q15  $1 \frac{1}{8} = 9/8; 2 \frac{1}{2} = 5/2; 9/8 \times 2/5 = 18/40 = 9/20$
- Q16 4 and 19 do not have a common factor; therefore  $4/19$  is the lowest term
- Q17  $(15 \times 63) \div 100 = 9.45$
- Q18  $2.5/100 = 25/1000 = 1/40 = 1:40$
- Q19 False. The top number in a fraction is the numerator and the bottom number is the denominator.
- Q20 False. An improper fraction can be converted to a mixed number, e.g.,  $5/3 = 1 \frac{2}{3}$
- Q21 False. This is a mixed number; the decimal version would be 1.25
- Q22 True.  $0.04\% = 0.04$  parts per 100 = 4 parts per 10,000
- Q23  $0.0258 \times 10 = 0.258 = 0.26$  or  $.26$
- Q24 2, 3, 4 and 12 are factors of 48; all can be divided without any remainders.
- Q25  $31 \div 49 = 0.775$  or  $.775$