

## WORKING WITH DECIMALS

\* Remember to line up the decimal points when adding or subtracting.

\* Remember that the number of digits after the decimal point in the product of two decimals must equal to the sum of the numbers of digits after the decimal point of each of the two decimals being multiplied.

\* Remember that when dividing two decimals using long division you must move the decimal point of each to the right until the divisor (the number you are dividing by) becomes an integer.

### Model Problems:

1)  $16.5 + 18 + 2.4$

$$\begin{array}{r} 16.5 \\ 18.0 \\ + 2.4 \\ \hline 36.9 \end{array}$$

2)  $23.45 - 18.6$

$$\begin{array}{r} 23.45 \\ - 18.6 \\ \hline 4.85 \end{array}$$

3)  $87 - 28.8$

$$\begin{array}{r} 87.0 \\ - 28.8 \\ \hline 58.2 \end{array}$$

4)  $660.4 \div 4$

$$\begin{array}{r} 165.1 \\ 4 \overline{) 660.4} \end{array}$$

5)  $37.26 \div 2.3$

$$\begin{array}{r} 16.2 \\ 2.3 \overline{) 37.26} \end{array}$$

We move the decimal point the same number of places in both the divisor and dividend so that the problem does not have a decimal in the divisor and proceed as we did in #4.

### Practice:

Add, subtract, multiply, or divided as indicated.

1.  $11.57 + 15 + 0.68$

2.  $74 - 8.39$

3.  $230.9 - 11.86$

4.  $19.4 - 7.6501$

5.  $63.05 + 16 + 8.727$

6.  $8.009 - 0.873$

7.  $16.5 - 9.7902$

8.  $43.07 + 12 + 6.919$

9.  $6.007 - 2.734$

10.  $17.92 + 2.001 + 23$

11.  $63.005 - 9.1274$

12.  $214 - 7.143$

13.  $1.04 \times 25.3$

14.  $29.7 \times 23.4$

15.  $9.0936 \div 0.4$

16.  $21.33 \times 7.6$

17.  $6.09 \div 3$

18.  $325 \div 0.005$

19.  $84.66 \times 3.9$

20.  $892 \div 0.004$

21.  $44.4 \div 6$

22.  $0.24 \times 2.7$

23.  $8.034 \div 39$

24.  $396 \div 0.36$

25.  $6.29 \times 0.001$

26.  $66.17 \div 13$

27.  $73.44 \div 36$

**Answers:**

- |             |             |            |             |             |
|-------------|-------------|------------|-------------|-------------|
| 1. 27.25    | 2. 65.61    | 3. 219.04  | 4. 11.7499  | 5. 87.777   |
| 6. 7.136    | 7. 6.7098   | 8. 61.989  | 9. 3.273    | 10. 42.921  |
| 11. 53.8776 | 12. 206.857 | 13. 26.312 | 14. 694.98  | 15. 22.734  |
| 16. 162.108 | 17. 2.03    | 18. 65,000 | 19. 330.174 | 20. 223000  |
| 21. 7.4     | 22. 0.648   | 23. 0.206  | 24. 1100    | 25. 0.00629 |
| 26. 5.09    | 27. 2.04    |            |             |             |

