

Science 10

More Significant Digits, Scientific Notation and Conversions Worksheet

All answers can be placed on this sheet if you like ☺

Part A: Solve the following mathematical problems so that the answers have the correct number of significant figures:

1) $334.54 \text{ km} + 198 \text{ km} =$ _____

2) $34.1 \text{ km} / 1.1 \text{ h} =$ _____

3) $2.11 \text{ m} / 34 \text{ s} =$ _____

4) $0.0010 \text{ m} - 0.11 \text{ m} =$ _____

5) $349 \text{ cm} + 1.10 \text{ cm} + 100 \text{ cm} =$ _____

6) $450 \text{ meters} / 114 \text{ seconds} =$ _____

7) $298.01 \text{ km} + 34.112 \text{ km} =$ _____

8) $84 \text{ m/s} \times 31.221 \text{ s} =$ _____

9) $22.4 \text{ m} \times 0.1 \text{ m} =$ _____

10) $465 \text{ km} / 5.21 \text{ h} =$ _____

Part B: Convert the following numbers into scientific notation:

1) 3,400 _____

2) 0.000023 _____

3) 101,000 _____

4) 0.010 _____

5) 45.01 _____

6) 1,000,000 _____

7) 0.00671 _____

8) 4.50 _____

Part C: Round each of the following to three Significant Digits:

1) 5357 _____

2) 64.845 _____

3) 578900 _____

4) 0.0031904 _____

5) 16.8477 _____

6) 0.14986 _____

7) 0.00318756 _____

8) 861.85 _____

9) 0.9025011 _____

10) 5.6732 _____

Part D: Convert each of the following to the units stated:

1) 30 s , convert to min _____

2) 38 km, convert to meters _____

3) 102 km/h , convert to m/s _____

4) 92 min, convert to hours _____

5) 3.5 h , convert to min _____

6) 650 m, convert to km _____

7) 0.0300 h, convert to s _____

8) 5 km/h , convert to m/s _____

9) 45 m/s , convert to km/h _____

10) 3600s, convert to hours _____