

# Significant Figures Worksheet

## Objectives:

- Identify the significant figures in a reported calculation
- Record a measurement with the correct number of significant figures
- Perform calculations and record the results with the correct number of significant figures

## How many significant figures are in the following measurements?

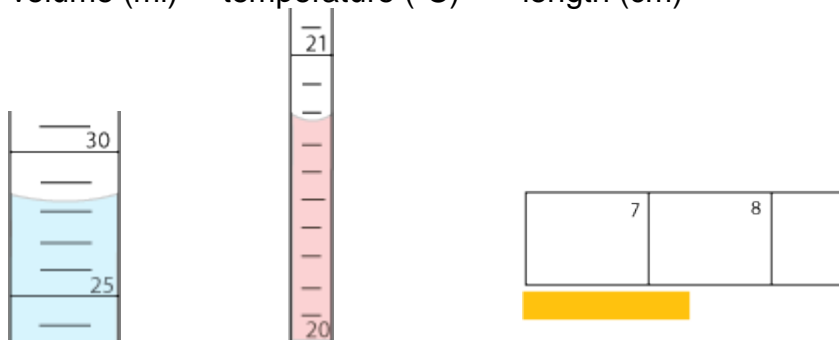
- |           |         |
|-----------|---------|
| 1) 43.6 m | 30.456  |
| 2) 101    | 0.056   |
| 3) 2.300  | 0.00200 |

## Round the following numbers to 3 significant figures

- |             |        |
|-------------|--------|
| 4) 2359     | 1.2305 |
| 5) 0.050091 | 893256 |

## Report the measurement with the correct number of significant figures

- 6) volume (ml)      temperature (°C)      length (cm)



## Calculate and give the answer with the correct number of significant figures

- |                                |                                |                     |
|--------------------------------|--------------------------------|---------------------|
| 7) $3.256 / 2.7$               | $14.88 * 3.77$                 | $12.699 * 5$        |
| 8) $1.333 + 2.62$              | $14.365 + 259.1$               | $2.3 - 1.1 + 3.563$ |
| 9) $\frac{15.8 - 12.3}{5.698}$ | $\frac{14.8855}{3.329 - 23.6}$ |                     |

- | Answers |                        |
|---------|------------------------|
| 1)      | 3, 5                   |
| 2)      | 3, 2                   |
| 3)      | 4, 3                   |
| 4)      | 2360, 1.23             |
| 5)      | 0.0501, 893000         |
| 6)      | 28.3ml, 20.79°C, 7.3cm |
| 7)      | 1.2, 3.95, 3           |
| 8)      | 3.95, 273.5, 4.8       |
| 9)      | 0.61, -0.733           |