

Significant Figures Worksheet

1. Determine the number of significant digits in each of the following:

- | | | |
|----------------|--------------|---------------|
| a) 6.571 g | f) 30.07 g | k) 54.52 cm |
| b) 0.157 kg | g) 0.106 cm | l) 0.12090 mm |
| c) 28.0 ml | h) 0.0067 g | m) 2.690 g |
| d) 2500 m | i) 0.0230 cm | n) 43.07 cm |
| e) 0.0700000 g | j) 26.509 cm | |

2. Add:

- a) $16.5 + 8 + 4.37$
- b) $13.25 + 10.00 + 9.6$
- c) $2.36 + 3.38 + 0.355 + 1.06$
- d) $0.0853 + 0.0547 + 0.0370 + 0.00387$
- e) $25.37 + 6.850 + 15.07 + 8.056$

3. Subtract:

- | | |
|---------------------|---------------------|
| a) $23.27 - 12.058$ | c) $350.0 - 200$ |
| b) $13.57 - 6.3$ | d) $27.68 - 14.369$ |

4. Multiply:

- | | |
|--------------------------------------|------------------------------------|
| a) 2.6×3.78 | e) 3.08×5.2 |
| b) 6.54×0.37 | f) 0.0036×0.02 |
| c) $3.15 \times 2.5 \times 4.00$ | g) $4.35 \times 2.74 \times 3.008$ |
| d) $0.085 \times 0.050 \times 0.655$ | h) $35.7 \times 0.78 \times 2.3$ |

5. Divide:

- | | | |
|-------------------|---------------------|-----------------------|
| a) $35 \div 0.62$ | c) $0.58 \div 2.1$ | e) $3.76 \div 1.62$ |
| b) $39 \div 24.2$ | d) $40.8 \div 5.05$ | f) $0.075 \div 0.030$ |

6. Express the Following in Scientific Notation:

- | | | |
|--------------|---------------|--------------|
| a) 0.000 03 | c) 55 000 000 | e) 0.000 007 |
| b) 8 000 000 | d) 0.002 | f) 65 000 |

7. Do the Following Calculations Using Scientific Notation:

- a) 0.0005×0.002
- b) $5000\ 000 \times 6000$
- c) $65\ 000 \times 0.003$
- d) $750\ 000 \times 20\ 000 \times 3000$
- e) $9\ 000 \div 300$
- f) $400 \div 20\ 000$
- g) $0.008 \div 0.00002$
- h) $(60\ 000 \times 7000) \div 1000$
- i) $(0.0006 \times 0.002) \div 0.0003$
- j) $(0.0006 \times 8000) \div 120$
- k) $(400\ 000 \times 0.0008 \times 3\ 000) \div (0.0002 \times 0.0006)$

$$(0.08 \times 200 \times 0.004) / (800 \times 300)$$