1 Measurement and uncertainties

1.1 Measurements in physics

Name: ........................................... Date: ...........................................

**Significant figures**

1 State the number of significant figures in the following.
   - a. 205 .......................................................................................................................... ...........................................
   - b. 1000 .......................................................................................................................... ..........................................
   - c. 0.023 ........................................................................................................................ ..........................................
   - d. 0.020 ........................................................................................................................ ..........................................
   - e. $2.30 \times 10^5$ ............................................................................................................................... ..............................

2 Solve the following.
   - a. $\sin 35^\circ$ = ..................................................................................................................... .........................................
   - b. $14.28 + 5.13 + 2.222$ = ....................................................................................................... ...............................
   - c. $16.25 \div 0.09$ = ............................................................................................................... ....................................
   - d. $16 \text{ nm} \times 14 \text{ pm}$ = .............................................................................................................. .................................
   - e. $5.62 \times 10^{12} \div 2.717 \times 10^5$ = ............................................................................................................................ ....

3 Round 0.00350681 to:
   - a. 1 significant figure ......................................................................................................... ..................................
   - b. 2 significant figures ........................................................................................................ ..................................
   - c. 3 significant figures ........................................................................................................ ..................................
   - d. 4 significant figures ........................................................................................................ ..................................
   - e. 5 significant figures ........................................................................................................ ..................................