

- 1 The following numbers have been rounded to a certain degree. Give their least and greatest values.
- | | | | | |
|--------|-------|-------------------|---------------|------------------|
| (i) | 150 | nearest 10 | Least = | Greatest = |
| (ii) | 30 | nearest 10 | Least = | Greatest = |
| (iii) | 200 | nearest 100 | Least = | Greatest = |
| (iv) | 12 | nearest whole no. | Least = | Greatest = |
| (v) | 3.8 | 1 decimal place | Least = | Greatest = |
| (vi) | 3000 | nearest 1000 | Least = | Greatest = |
| (vii) | 0.84 | 2 decimal places | Least = | Greatest = |
| (viii) | 6 | nearest whole no. | Least = | Greatest = |
| (ix) | 0.2 | 1 decimal place | Least = | Greatest = |
| (x) | 3.246 | 3 decimal places | Least = | Greatest = |

Problems

- 2
- The length of a school hall correct to the nearest metre is 27m. Write down the least and the greatest values of the length of the hall.
 - Square carpet tiles have a length of 38 cm correct to the nearest cm. Write down the least and greatest possible values for the length of the sides.
 - One row of the tiles is laid side by side along the length of the hall. Neglecting any gaps between the tiles, show that 69 tiles is the **least** possible number of tiles needed to do this.
- 3 A rectangular card measures 128 mm long and 73 mm wide, each measurement being made correct to the nearest mm.
- Write down the least and greatest possible values for the length and the width of the card.
 - Two of the cards are placed as shown in the diagram. What is the **least** possible value of the distance AB?

