## Ex 11 Trigonometry

## Section A (Non-calculator)

1 Evaluate -
a) $80 \%$ of 75 g
b) $4-9 \cdot 75+13 \cdot 8$
c) $3.09 \times 100$
d) $1 \cdot 757 \div 7$
e) $\frac{3}{5} \div \frac{3}{4}$
f) $\frac{3}{4} \div \frac{1}{2}$

## Section B (Knowledge)

2 Work out a , b, c, d. (round answers to 3 significant figures)



3 Harry needs to use a ladder to put up a t.v. aerial on the wall of his house.
The ladder is $5 \cdot 2$ metres long and has to reach 5 metres up the wall.
For safety, the angle between the ladder and the ground should be between $71^{\circ}$ and $76^{\circ}$.
Can Harry use this ladder safely?
YOU MUST GIVE A REASON FOR YOUR ANSWER.

## Section C (Mixed)

4 Work out x.


5 A mobile phone company lists its charges as shown below.

| Phone Rental | £10.99 per month |
| :--- | :--- |
| Peak Rate calls | 35p per minute |
| Off-Peak calls | 16p per minute |
|  | + VAT at $17.5 \%$ |

Copy and complete this phone bill.
Rental for 1 month £10.99
258 minutes at peak rate $£$
123 minutes at off-peak £
VAT at $17.5 \%$
TOTAL £

