## Ex 11 Trigonometry

Section A (Non-calculator)

1 Evaluate –

a) 80% of 75g

c) 3.09 x 100

e)  $\frac{3}{5} \div \frac{3}{4}$ 

b) 4 - 9.75 + 13.8

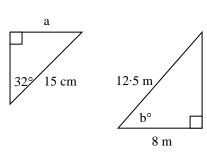
d)  $1.757 \div 7$ 

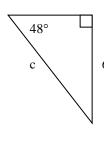
f)  $\frac{3}{4} \div \frac{1}{2}$ 

Section B (Knowledge)

Only use your calculator if you need to!

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 5.2 metres long and has to reach 5 metres up the wall.

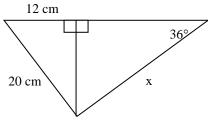
For safety, the angle between the ladder and the ground should be between  $71^{\circ}$  and  $76^{\circ}$ .

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	£