

## 6T Maths Homework - 11/01/19

### Arithmetic

Calculate the following percentages mentally and write down your answer

Find

a) 10% of 45

b) 30% of 40

c) 70% of 300

d) 15% of 60

e) 25% of 24

f) 1% of 63

g) 6% of 800

h) 9% of 50

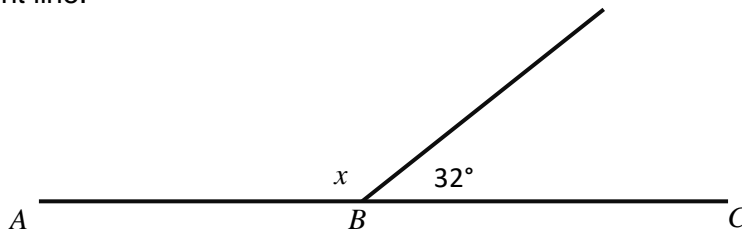
i) 12% of 200

j) 41% of 400

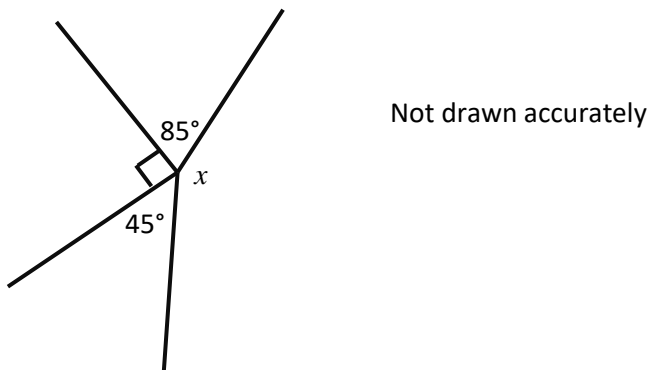
### Reasoning – Angles

Calculate the unknown angles in each of the questions below – **You must show all of your working**

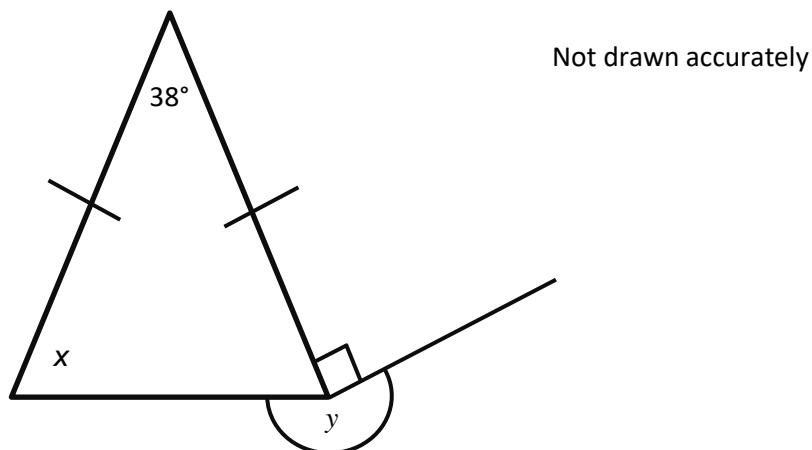
1)  $ABC$  is a straight line.



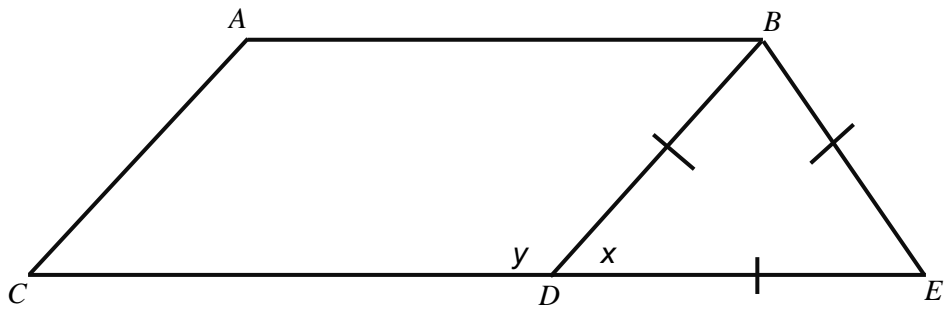
2)



3)

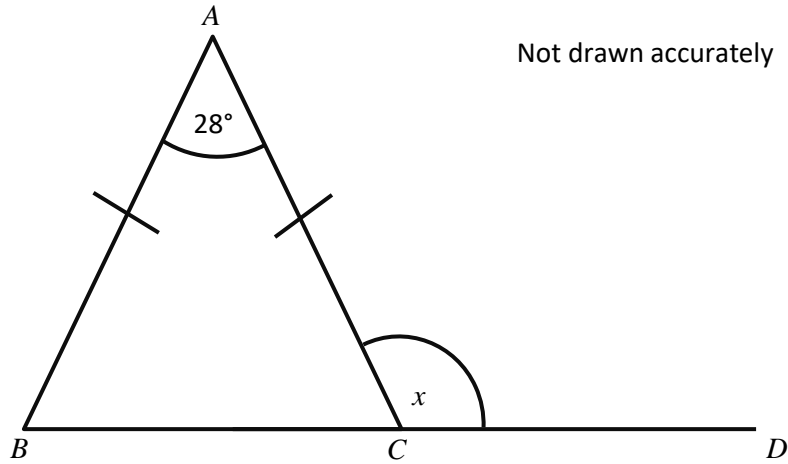


- 4) The diagram shows a parallelogram  $ABCD$  and an equilateral triangle  $BDE$   
 $CDE$  is a straight line



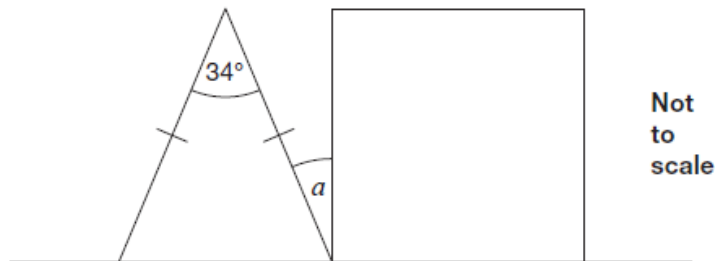
Not drawn accurately

- 5)  $AB = AC$   
 $BCD$  is a straight line



Not drawn accurately

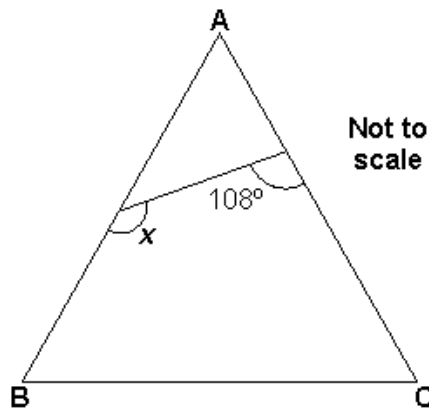
- 6) The diagram shows an isosceles triangle and a square on a straight line.



Not to scale

Calculate angle  $\alpha$ .

- 7) Triangle  $ABC$  is equilateral.



Not to scale

Calculate the size of angle  $x$ .

