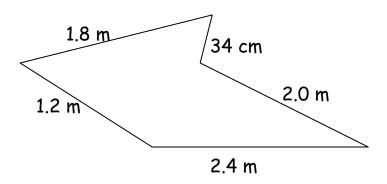
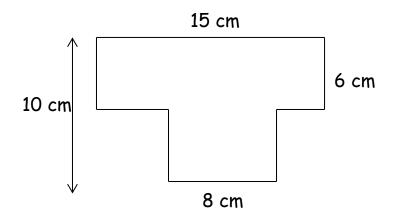
National 4 Mathematics: Homework 12

§ 1 Revision

Calculate the perimeter of the following shape 1



2 Calculate the area of the shape below



- 3 Change the following measurements
 - a) 5.2 cm to mm

b) 970 cm to m

c) 1.12 km to m

- d) 2 cm² to mm²
- Multiply out the brackets 4
 - (a) 2(x-4)
- (b) 5(a+2b) (c) 7(2x+4y)
- A new juice carton has been designed to hold 200cm³. If we know the length and breadth of 5 the carton are both 5cm, how tall is the carton?

National 4 Mathematics: Homework 12

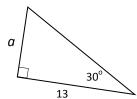
§ 2 Trigonometry

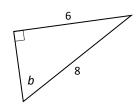
1 Find the angles and sides marked with letters.

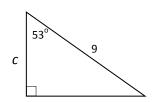
1.

2.

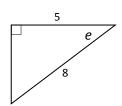
3.



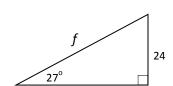




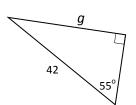
4.



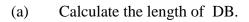
5.



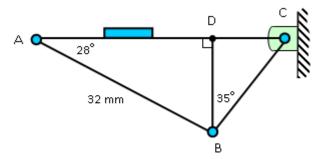
6.



2 The diagram opposite shows part of the framework for a small hinged bracket.



(b) Hence calculate the length of BC.



3 The diagram opposite represents a playground chute.

AC represents the slide and AB the stairs.

A local council ruling states " for a slide to be safe the maximum permissible angle between the slide and the ground is 35° ".

Does this diagram represent a "safe" slide?

