Name: _____ 5-a-day Higher Plus

24th January

Corbettmaths

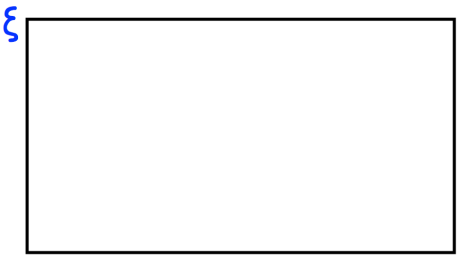
$$f(x) = \frac{ax + 3}{4}$$

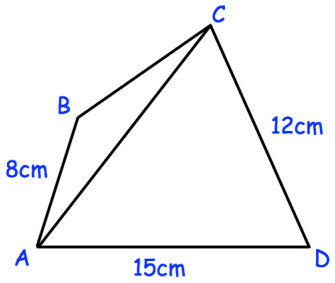
Given
$f(7) = 6$

Find a

A PE test has two sections, theory and practical.
Everyone in a class who took the PE test passed at least one section.
65% passes the theory section and 80% passed the practical section.

Represent this information on a Venn diagram





ABCD is a quadrilateral.

AB = 8cm, AD = 15cm and CD = 12cm.
Angle ADC = 78° and angle BAC = 20°

Calculate the length of AC.

Calculate the area of triangle ABC.

Find the set of values of x for which

both $9x - 2 < 18 - x$
and $x^2 - x \geq 20$