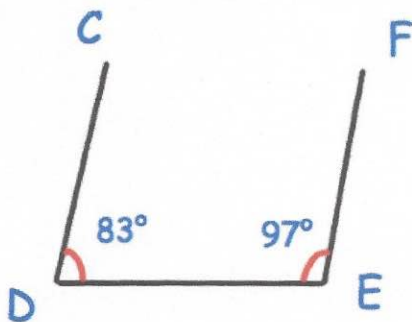


2nd May



Are CD and EF parallel? Corbettmaths



$$83 + 97 = 180^\circ$$

Yes, since co-interior
 $\angle CDE$ & $\angle DEF$

Make c the subject

$$2w = \frac{9 + c}{8}$$

$$16w = 9 + c$$

$$-9 \quad -9$$

$$16w - 9 = c$$

$$c = 16w - 9$$

On a particular day, 98 adults visit a leisure centre.

Some are going to the gym.

Some are going to play tennis.

Some are going to play badminton.

The rest are going swimming.

51 people are male.

21 out of the 40 going to the gym are male.

19 males and 7 females are going swimming.

7 out of the 20 people playing badminton are male.

Twice as many females play tennis than males

How many women play tennis?

	gym	tennis	badminton	swimming	Total
male	21	4	7	19	51
female	19	8	13	7	47
Total	40	12	20	26	98

8

Solve these simultaneous equations

$$2x + 2y = 14 \quad \times 3$$

$$5x - 3y = 19 \quad \times 2$$

$$6x + 6y = 42$$

$$10x - 6y = 38 \quad \text{add}$$

$$16x = 80$$

$$x = 5$$

$$25 - 3y = 19$$

$$3y = 6$$

$$y = 2$$

$$x = 5$$

$$y = 2$$