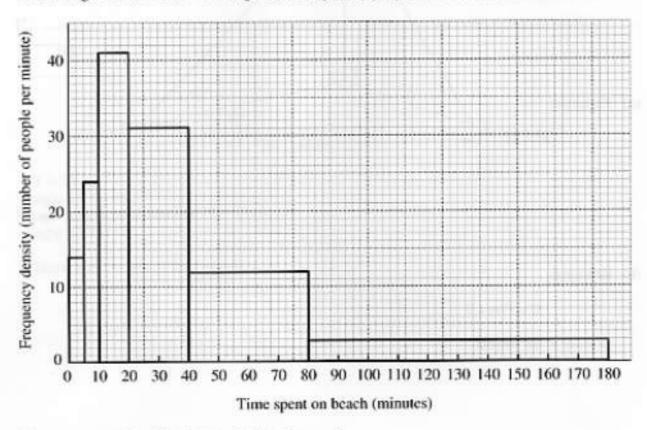
7	Wire fencing is to be put around a rectangular field. The field measures 50 m by 32 m, each correct to the nearest metre. Taja has 165 m of fencing to the nearest metre.		
	Show clearly how you decide whether she is certain to have	enough fencing.	

			[2]
			2
8	(a) Factorise.		
	$x^2 - 81$		
		(a)	[1]
	(b) Rearrange		
	$C = 5\sqrt{m} + 3$		
	to make m the subject.		
		(b) m =	[3]
		A	4
9	Caitlin is making some spherical balls from clay.		
	How many balls of diameter 4.5 cm can she make from 500 cm ³ of clay?		
			balls [4]
			4

[Turn over



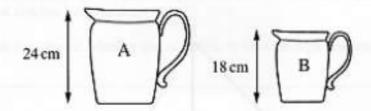
The histogram below shows the length of time spent by people on a beach one afternoon.



How many people visited the beach that afternoon?

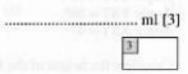
..... people [3]

11 These two jugs are mathematically similar.



Jug A has a height of 24 cm and jug B has a height of 18 cm. The capacity of jug B is 520 ml.

Calculate the capacity of jug A.

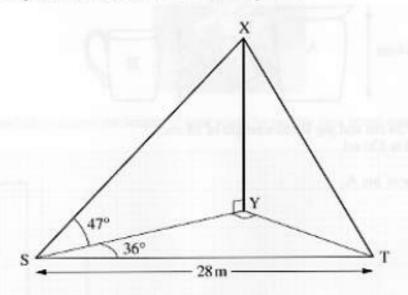


- 12 You are given that $y = x^2$ and x = 4 when y = 7.
 - (a) Find a formula for y in terms of x.

(b) Find y when x = 6.



13 A vertical flagpole XY stands on horizontal ground. It is supported by two wires XS and XT, fixed to the ground.



ST is 28 m.

Angle SYT = 90°.

Angle YST = 36°.

Angle XSY = 47°.

Calculate the height of the flagpole.

..... m [5]