

[2]

1. The table below shows the results of survey of S4 pupils.

	Wearing a blazer	Not wearing a blazer
Boys	40	22
Girls	29	9

What is the probability that a pupil, chosen at random from this sample, will be a boy wearing a blazer? Give your answer in its simplest form. [2]

Working:			

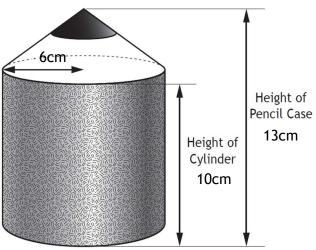
2. A group of people attended a course to help them stop smoking. The following table shows the statistics before and after the course.

	Mean number of cigarettes smoked per person per day	Standard deviation
Before	20.8	8.5
After	9.6	12.0

Make two valid comments about these results.

Working:		

3. Lucas has a tub for his crayons. It is in the shape of a pencil as shown below. It consists of a cylinder with a cone on top. Calculate the volume of Robbie's tub. [4]



Working:

Robert works for 40 ho His basic wage is £9·60 Insurance. Calculate hi	per hour. Each w	eek he pays £29·56 Income	Γax and £9·57 in Nat [1
orking:			
		he holiday costs £540 and Ro is weekly income and outgo	
	Income	Outgoings	
Take home pay			
Rent		£81	
Bills		£39	
Food		£55	
Entertainment		£60	
Transport		£43	
Holiday Found			
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