	(b) Write down the standard			· · · · · · · · · · · · · · · · · · ·	* ****** * **** * * * * * * * * * * *
	en e	411 TET 178			
- بيسده	9.04	03 72	<u>\c.</u>	10+DE	-
5. A	gardener grows tomatoes in h	is greenhouse.	Calca		
Т	he temperature of the greenhay at noon for one week.	nouse, in degre	es Celsiu	s, is record	ed every
	17 22 25	16 21 16	16		
C.	r) For the given temperatures	. calculate:		•	٥
. "	(i) the mean;	,			
	(ii) the standard deviation.	•			
	Show clearly all your wo	orking.			
s	For best growth, the mean to tandard deviation should be le	ess than 5°C.			
s	For best growth, the mean to tandard deviation should be less.  b) Are the conditions in the general Explain clearly your ans	ess than 5°C. reenhouse like			
s	tandard deviation should be le  b) Are the conditions in the g	ess than 5°C. reenhouse like			
s (	tandard deviation should be le  b) Are the conditions in the g  Explain clearly your ans	reenhouse like swer.	eulat	t in best gro	
s (	b) Are the conditions in the g Explain clearly your ans  2006  new central heating system is imple temperatures, in degrees	reenhouse like swer.  P2 (a) installed in a his Celsius, are re	eulat	t in best gro	
s. A Sa	b) Are the conditions in the g Explain clearly your ans  2006  new central heating system is imple temperatures, in degrees	reenhouse like swer.  P 2	ty to result	t in best gro	
s. A Sa	Explain clearly your ans  2006 new central heating system is imple temperatures, in degrees	reenhouse like swer.  P 2	ty to result	t in best gro	

Give reasons for your answer.

# **Statistics Int 2** PP 2001 -2008

	The probability that she gets a number less than 7 is
	$\begin{array}{ccc} A & 0 \\ B & \overline{7} \end{array}$
	$C = \frac{1}{6}$
	D 1.
	Write down the letter that corresponds to the correct probability.
	2004 P2. calculator
2.	The heights, in millimetres, of six seedlings are given below.
	15 18 14 17 16 19
	<ul> <li>(a) Calculate: <ul> <li>(i) the mean;</li> <li>(ii) the standard deviation;</li> <li>of these heights.</li> </ul> </li> <li>Show clearly all your working.</li> </ul> <li>(b) Later the same six seedlings are measured again.  Each has grown by 4 millimetres.</li>
	State:
	(i) the mean; (ii) the standard deviation;
)	of the new heights.  2005   2 calculator  In a bakery, a sample of six fruit loaves is selected and the weights, in grams, are recorded.
	395 400 408 390 405 402
	For the above data the mean is found to be 400 grams.
	(a) Calculate the standard deviation.

found to be 400 grams and 5.8 grams respectively.

Are the new methods successful?

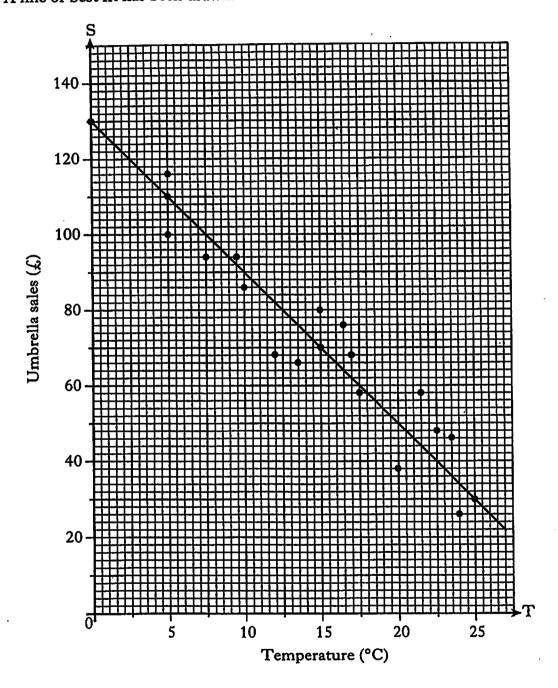
Give a reason for your answer.

# Int 2 PP 2001 -2008

Line of best fit

#### 2006 Pl non-calculator

 The temperature, in degrees Celsius, at mid-day in a seaside town and the sales, in pounds, of umbrellas are shown in the scattergraph below.
 A line of best fit has been drawn.



- (a) Find the equation of the line of best fit.
- (b) Use your answer to part (a) to predict the sales for a day when the temperature is 30 degrees Celsius.

3

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## Int 2 PP 2001 -2008

Line of best fit

2008 P2 calculator

3. The results for a group of students who sat tests in mathematics and physics are shown below.

Mathematics (%)	10	18	26	32	49
Physics (%)	25	35	30	40	41

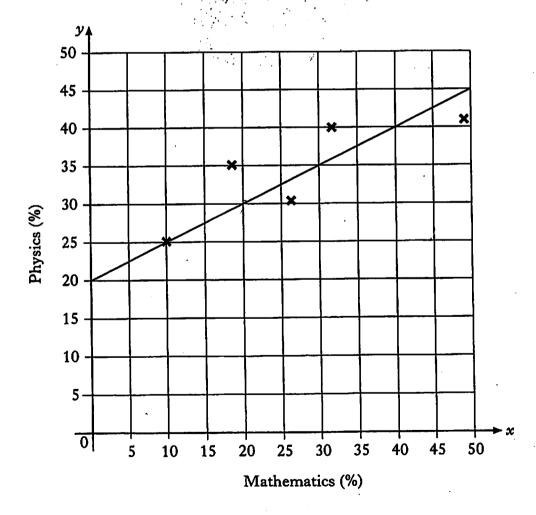
(a) Calculate the standard deviation for the mathematics test.

(b) The standard deviation for physics was 6.8.

Make an appropriate comment on the distribution of marks in the two tests.

These marks are shown on the scattergraph below.

A line of best fit has been drawn.



- (c) Find the equation of the line of best-fit.
- (d) Another pupil scored 76% in the mathematics test but was absent from the physics test.

Use your answer to part (c) to predict his physics mark.

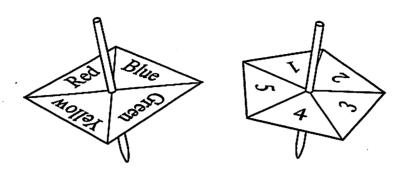
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# Int 2 PP 2001 -2008

2003 P1 non-calculator.
Two spinners are used in an experiment.

T



The table below shows some of the possible outcomes when both spinners are spun and allowed to come to rest.

	1 .	2	3	4	5
Red	R,1	R,2			
Yellow	Y,1				
Blue	B,1				
Yellow Blue Green	G,1				

- (a) Copy and complete the table.
- (b) What is the probability that one spinner comes to rest on red and the other on an even number?

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2007 Pl non-calculator

. The table below shows the results of a survey of First Year 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 girl wearing a blazer?