Spring Assessment



Mathematics

Core: Calculator allowed

Time allowed: 45 minutes

First name					
Middle name					
Last name					
Date of birth	Day		Month	Year	
Maths Group		<u>.</u>		<u>.</u>	



1 mark

Round 37.835 to 2 significant figures.



1 mark

Choose the most appropriate unit to measure the length of a football pitch. Circle your answer.

2





mark





4

Write the ratio of blue counters to white counters in the bag. Give your answer in **simplest** form.

> | mark

| mark

One counter is taken at random out of the bag.

What is the probability that the counter is pink?

What is the probability that the counter is white?

mark



2	h^2	$oldsymbol{h}^4$	h ⁻⁴

1 mark





Bobby sat two maths tests.

Test A	Test B
68%	4 out of 8

In which test did Bobby score the highest percentage?

You must show your working.

Test





| mark

Here is part of the same sequence.

Fill in the boxes with the missing terms. ..., n, 43, n, ... The *n*th term of another sequence is $n^2 + 8n + 4$ Find the 10th term of the sequence.



| mark

Page 10 of 16



Page || of |6





Which of these other lines does the point (7, 9) lie on? Circle your answers.

$$y = 7$$
 $x = 7$ $y = 9$ $x = 9$

| mark A ladder is safe to climb if the angle between the ground and the ladder is between 70° and 75°

Hollie's ladder is at an angle of 62°



John says,

"Increase your angle by 15% and your ladder will be safe to climb."

Is John correct?

Show your reasoning.



Show your working.

END OF TEST