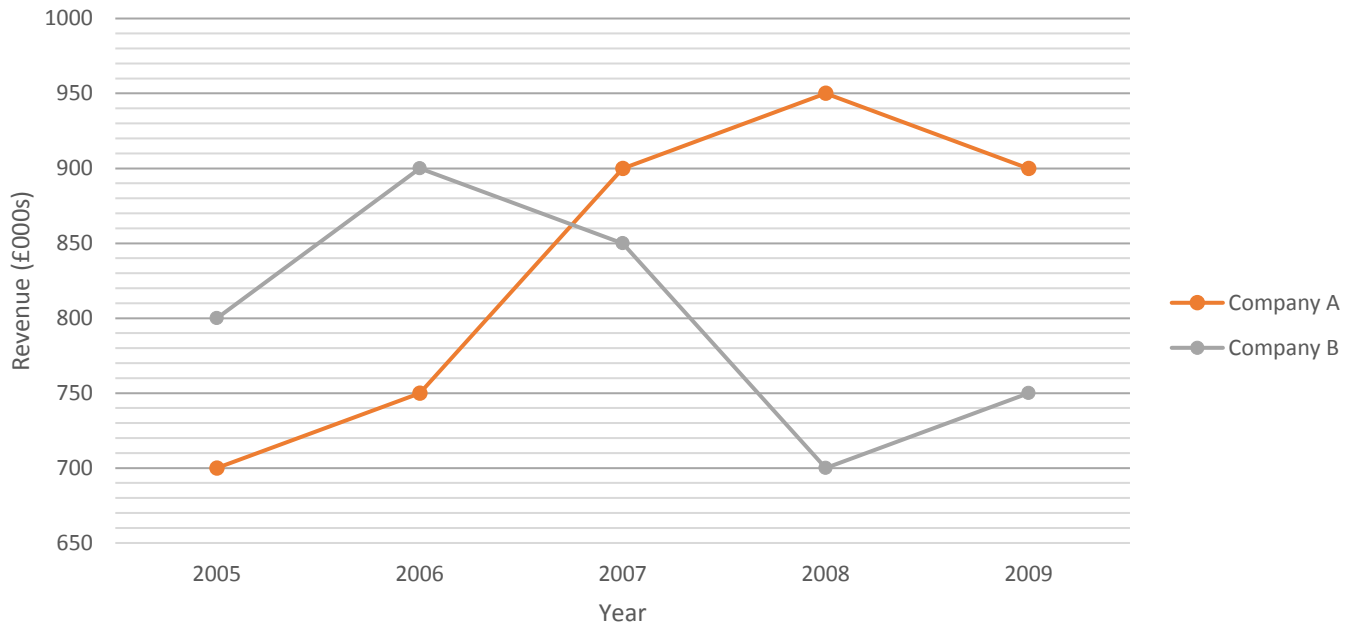


**FOUNDATION TIER  
MINI PRACTICE EXAM 8**

**CALCULATOR ALLOWED  
20 MINUTES ALLOWED**



1.  
The line graph below shows the yearly revenues of two companies.



(a) What was Company A's revenue in 2005?

(1)

(b) What was the difference in the companies' revenues in 2008?

(1)

(c) What was the percentage increase of Company A's revenue from 2006 to 2007?

(2)

2.  
Last month, a shop sold 450 shirts.

The ratio of shirts sold to blazers sold to hoodies sold was 6:1:3.

How many more hoodies were sold than blazers?

(4)

3.

Bianca is thinking of two numbers.

Both numbers are multiples of 13.

The two numbers have a sum of 91 and a difference of 39.

Write down the two numbers Bianca is thinking of.

(2)

4.

Charlotte is making chocolate muffins. She reads the instructions.

<p style="text-align: center;"><b>Ingredients</b></p> <p style="text-align: center;">To make 8 muffins:</p> <p style="text-align: center;">160g flour</p> <p style="text-align: center;">180g sugar</p> <p style="text-align: center;">200g butter</p> <p style="text-align: center;">120g cocoa powder</p>
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Charlotte wants to make 50 muffins.

How much of each ingredient does she need?

(4)

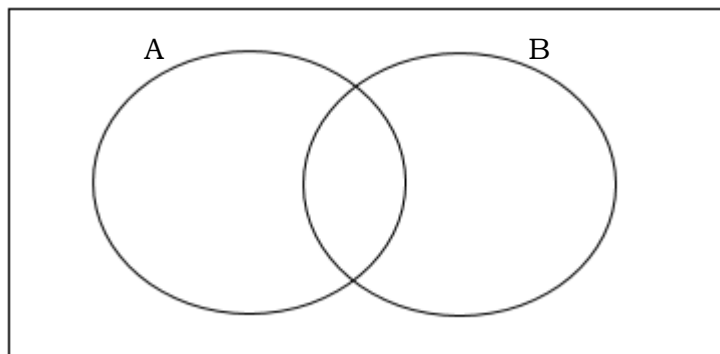
5.

$\xi$  = all positive integers less than 21

A = all prime numbers less than 21

B = all factors of 20

(a) Complete the Venn diagram below.



(5)

(b) Find  $P(A \cup B)$ .

(1)