



BANCROFT'S SCHOOL

11+ EXAMINATION

Mathematics Entrance Paper: **SAMPLE**

Time allowed 30 minutes

First name	
Last name	
Date of birth	
Name of my school	

Instructions:

- This exam is 30 minutes long
- The exam is out of 40 marks

EQUIPMENT

- All you will need is a pencil or a pen and a rubber
- No calculators are allowed

ADVICE

- The questions get progressively harder
- They are designed to challenge you and make you think

Try your best

1. Fill the missing numbers in the boxes.

$$\boxed{} + 488 = 731 + 489$$

(2)

$$\boxed{} \times 7 = 43 \times 14$$

(2)

2. You are told that $1000 \div 8 = 125$

Work out $1000 \div 16$ *Give your answer as a decimal.*

.....
(2)

Work out $1000 \div 32$ *Give your answer as a decimal.*

.....
(2)

3. How many seconds are there from 11:45am until 12:10pm on the same day?

..... seconds
(2)

4. a) 25% of a number is 2.6
What is that number?

.....
(2)



Write down the number that the arrow is pointing towards.

.....
(2)

- c) The sum of two numbers is 35 and their difference is 7.
What are the two numbers?

..... and
(2)

5. Each number in a sequence is calculated by multiplying the previous number by 3 and then subtracting 7.

- a) If the first number is 4, what is the fourth number?

.....
(2)

- b) If the third number is 20, what is the second number?

.....
(2)

6. A drinks bottle is $\frac{1}{3}$ full of fizzy drink. I drink 40ml of fizzy drink and the bottle is now $\frac{1}{4}$ full.

How much fizzy drink does the bottle hold when full?

..... ml
(2)

7. Travelling by train from Edinburgh to London, I passed a sign saying "London 151 miles". After 7 more miles, I passed another sign saying "Edinburgh 242 miles". How far is it by train from Edinburgh to London?

..... miles
(2)

8. On Pythagorean Avenue there are 50 houses on the North side of the road. Their numbers go up in twos from 1 to 99.

Houses 17 to 41 are all demolished.

How many houses are left standing on the North side of Pythagorean Avenue?

..... houses
(2)

9. a) What is 60% of 45 plus 40% of 45?

.....
(2)

b) What is 40% of 52 take-away 52% of 40?

.....
(2)

c) What is 72% of 87 plus 87% of 28?

.....
(2)

10. When 12341234 is divided by 23 the remainder is 9.

a) What is the remainder when 12341233 is divided by 23?

.....
(2)

b) What is the remainder when 12341250 is divided by 23?

.....
(2)

c) What is the remainder when 24682468 is divided by 23?

.....
(2)

11. Jemima has written down four whole numbers.

If she chooses three of her numbers at a time and adds up each triple, she obtains totals of 130, 143, 157 and 170.

What is the largest of Jemima's numbers?

.....
(2)

END OF PAPER- Now go back to the beginning and check your work

