



*Beauchamps High School
and
The Bromfords School and Sixth Form College
Maths Transition Project*



NOTHING NEW, JUST A REVIEW



THE BROMFORDS SCHOOL
ACHIEVE ENRICH PREPARE

What number facts can you tell me about the number 23?





NOTHING NEW, JUST A REVIEW



THE BROMFORDS SCHOOL
ACHIEVE ENRICH PREPARE

What number facts can you tell me about the number 120?



NOTHING NEW, JUST A REVIEW



THE BROMFORDS SCHOOL
ACHIEVE ENRICH PREPARE

What number facts can you tell me about the number 200?



Help us identify the Beauchamps' teachers' favourite numbers!





Challenge A Example



I'm thinking of my favourite number ...

- I multiply it by 7
- I add 5
- I end with the number 54

What is my number?

7

Mr Harper - Headteacher



Challenge A Example



I'm thinking of my favourite number ...

- I multiply it by 6
- I add 9
- I multiply it by 10
- I end with the number 690

What is my number?

10

Mrs Pepper - Deputy
Headteacher



Challenge B Example



I'm thinking of my favourite number ...

- I am greater than 70 but less than 90
- The sum of my digits is 12
- I am an odd number
- I am not a prime number
- I am divisible by 5

What is my number?

75

Mr Fitzsimmons - Transition Lead



Challenge B Example



I'm thinking of my favourite number ...

- My number has 2 digits
- I am an odd number
- The units digit is the same as $1 + 2 + 3 + 1$
- If you add the digits up you get 14
- I am not a prime number

What is my number?

77

Miss Horley - Year Lead Y7



Challenge C Example



I'm thinking of my favourite number ...

- I am greater than 70 but less than 100
- I am an odd number
- My ones digit is one less than my tens digit
- Two of my factors are 3 and 29

What is my number?

Mr Piggott - Head of Maths

87



Challenge C Example



Miss Clarkson - SENCO

I'm thinking of my favourite number ...

- My number has 3 digits
- I am an even number
- The ones digit is the number of sides of a quadrilateral
- Two of my factors are 4 and 26
- I am a multiple of 312

What is my number?

104



Your task



Challenge A

Create a riddle for your favourite number to test on your classmates.

- Use the Challenge A examples to help you
- Think of a number
- Create 3 or 4 steps using the four operations
- Record your final number
- Challenge your classmates to use the inverse to find your original number

Challenge B

Create a riddle for your favourite number to test on your classmates.

- Use the Challenge B examples to help you
- Think of a number - stick to using 2-digit numbers
- Create 4 or 5 clues
- Use mathematical vocabulary for clues - odd/even, prime, sum, product
- Challenge your classmates to solve your riddle

Challenge C

Create a riddle for your favourite number to test on your classmates.

- Use the Challenge C examples to help you
- Think of a number - can be 2- or 3-digit numbers
- Create 4 - 6 clues
- Use mathematical vocabulary for clues - odd/even, prime, sum, product, factors, multiples
- Challenge your classmates to solve your riddle

Using the examples shown, write riddles for your own favourite numbers that you can test on your classmates.

