

ODD OR EVEN

OCR Monday 24 May 2018 – Morning (Calculator) Foundation Tier

1.

1 Here is a list of numbers.

2 8 5 12 6

(a) From this list, write down

(i) the odd number,

(a)(i) [1]

(ii) the cube number.

(ii) [1]

(b) Using the same list of numbers, work out

(i) the median,

(b)(i) [1]

(ii) the range.

OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

2.

23 (a) n is an integer.

(i) Explain why $2n + 1$ is an odd number.

.....
..... [1]

(ii) Write down an algebraic expression for the next odd number after $2n + 1$.

(a)(ii) [1]

(b) Use algebra to show that the sum of two consecutive odd numbers will always be a multiple of 4. [2]

Pearson Edexcel – Sample Papers - Paper 1 (Non-Calculator) Foundation Tier

3.

3 Write down the 20th odd number.

(Total for Question 3 is 1 mark)

Pearson Edexcel –Sample Papers - Paper 2 (Calculator) Foundation Tier

4.

11 Adam says,

“When you multiply an even number by an odd number
the answer is always an odd number.”

(a) Write down an example to show Adam is wrong.

(1)

Betty says,

“When you multiply two prime numbers together
the answer is always an odd number.”

(b) Betty is wrong.
Explain why.

(2)

(Total for Question 11 is 3 marks)

OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

5.

3 Here is a list of numbers.

11 27 81 21 41 42 23 39 45

From this list, write down

(a) the even number,

(a) [1]

(b) the square number,

(b) [1]

(c) all the prime numbers.

(c) [2]

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

6.

3 Peter says

The sum of an odd number and an even number is even.

The example $3 + 4 = 7$ shows that Peter is **not** correct.

Write an example to show that each of these statements is **not** correct.

(a) The sum of two prime numbers is always odd.

..... [1]

(b) Squaring a whole number always results in an even number.

..... [1]

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

7.

10 Here are some properties of numbers.

- A Even
- B Odd
- C Prime
- D Square
- E Two-digit

10 (a) Which **two** properties does the number 4 have?

Circle the correct letters.

[1 mark]

A B C D E

10 (b) Can one number have **all** of the properties?

Tick a box.

Yes

No

Cannot tell

Give a reason for your answer.

[1 mark]

10 (c) Write down a number with **three** of the properties.

State which properties it has.

[2 marks]

Number _____

Properties _____, _____, _____

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

8.

9

Lucy says,

“3 is odd and 2 is even,
so when you add a multiple of 3 to a multiple of 2 the answer is always odd.”

Is she correct?

Write down a calculation to support your answer.

[1 mark]
