Teacher Notes

Stage 8, Unit 1: Numbers and the number system	Check in

The following boarding card is intended to check that your students have a secure grasp of the knowledge required for this unit, with the intention of it being used diagnostically rather than as a summative test:

- Know the meaning of a prime number

- Recall prime numbers up to 50

- Understand the use of notation for powers

- Know how to round to the nearest whole number, 10, 100, 1000 and to decimal places

- Multiply and divide numbers by powers of 10

- Know how to identify the first significant figure in any number

- Approximate by rounding to the first significant figure in any number

ANSWERS:

1   No. A prime number has exactly two factors

2   2, 3, 5, 7, 11, 13, 17, 19

3   No. 49 is not a prime number because 7 is also a factor.

4   35

5   12350 ii) 12300 iii) 12000

6   12345.7

7   4545.45

8   1260

9   0.01263

10   500

Stage 8 Unit 1 take-off

Name: _____

Things to remember:

Destination: Numbers and the number system

1   Kenny thinks 1 a prime number because it is a number that can only be divided by itself and one. Do you agree? Explain your answer

2   List all the prime numbers between 1 and 20

3   Jenny thinks 19, 29, 39 and 49 are all prime numbers. Do you agree? Explain your answer

4   Write $3 \times 3 \times 3 \times 3 \times 3$ using powers.

5   Round 12345.678 to the nearest i) 10, ii) 100 and iii) 1000

6   Round 12345.678 to one decimal place

7   Round 4545.4545 to two decimal places

8   What is 12.6×100 ?

9   Find $12.63 \div 1000$

10 Round 543.21 to one significant figure

Destination: **Numbers and the number system**

Name: _____

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5   Round 12345.678 to the nearest i) 10, ii)100 and iii) 1000

6   Round 12345.678 to one decimal place

7   Round 4545.4545 to two decimal places

8   What is 12.6 x 100 ?

9   Find 12.63 ÷ 1000

10 Round 543.21 to one significant figure