**2020 decimal and common fractions consolidation – tricky, but give them a go**

**Q1.**

Write these in order of size, starting with the smallest.

             0.5                      0.65

  

 smallest

1 mark

**Q2.**

Write these numbers in order.

One has been done for you.



1 mark

**Q3.**

Write these in order of size, starting with the smallest.

            0.34            0.7           43%



smallest

1 mark

**Q4.**

Write **two decimals, each less than 1**, which multiply to make **0.1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   |   | × |   | = 0.1 |

**Q5.**

Write three decimals, **each greater than zero**, which add together to make a total of **0.01**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   |   | + |   | + |   | = 0.01 |

**Q6.**

This is part of a number line.

Write in the missing numbers.



**Q7.**

Circle the two decimals which are **closest in value** to each other.

0.9        0.09        0.99        0.1        0.01

1 mark

**Q8.**

Write the missing number.



1 mark

**Q9.**

Write the missing numbers.



1 mark



1 mark

**Q10.**

Here is a number line.

Draw an arrow to show the position of 



1 mark

Here is another number line.

Draw an arrow to show the position of **0.111**



1 mark

**Q11.**

The **sum** of two numbers is **5**

The **difference** between the numbers is **0.5**

What are the numbers?



2 mark

**Q12.**

Write these numbers in order of size, starting with the **smallest**.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|   | 1.01 |   | 1.001 |   | 1.101 |   | 0.11 |
|   |   |   |   |   |   |   |   |
|   | **smallest** |   |   |   |   |   |   |

1 mark

Which one of these fractions is **closest in value to ?**





1 mark

**Q13.**

Part of this number line is shaded.



Circle **all** the numbers below that belong in the shaded part of the number line.



1 mark

**M1.**Numbers in order, as shown:

0.5               0.65       

*Accept equivalent decimals, percentages or fractions.*

**[1]**

**M2.**          All four numbers correctly placed as shown:



*All four numbers must be placed correctly for the award of the mark.*

*Transcription errors are acceptable only if they do not result in a wrongly ordered list.*

**[1]**

**M3.**          Numbers in order as shown:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 0.34 |   | 43% |   | 0.7 |   |   |

Accept use of equivalent fractions, decimals or percentages, eg 0.34, 0.43, 0.7, 0.75

**[1]**

**M4.**          Any two decimals, each less than 1, with a product of 0.1, eg



          **OR**

****

*Accept negative numbers, eg*

**

**[1]**

**M5.**          Any three decimals which add to make 0.01, eg

0.005 + 0.002 + 0.003

*Accept ++*

**[1]**

**M6.**         2.089 in first box

**1**

2.095 in second box

**1**

*Accept equivalent fractions*

**[2]**

**M7.**          0.9                0.99              0.01

*Accept alternative ways of indicating the correct answer eg ticking the correct numbers.*

**[1]**

**M8.**2.5

*Accept equivalent fractions or decimals*

**[1]**

**M9.**          16

**1**

800

**1**

**[2]**

**M10.**          (a)     Arrow or other mark as indicated.



*Accept slight inaccuracies provided the intention is clear.*

**1**

(b)     Arrow or other mark as indicated.



**1**

**[2]**

**M11.**          Award **TWO** marks for a correct answer of 2.25 **AND** 2.75

*Accept the numbers in any order.
Accept the numbers in fraction form.*

          If the answer is incorrect award **ONE** mark for evidence of an appropriate method, eg
5 ÷ 2 = 2.5
**AND** 2.5 + 0.25
**AND** 2.5 – 0.25
**OR** trial and improvement showing two attempts, using numbers between 2 and 3,
which either converge towards or straddle the correct answer.

**up to 2**

**[2]**

**M12.**          (a)     

*All in correct order.*

**1**

(b)     50/151

**1**

**[2]**

**M13.**          Two numbers circled as shown:



***Do not*** *award the mark if additional incorrect numbers are circled.*

*Accept: alternative unambiguous indications, eg numbers ticked, crossed or underlined.*

**[1]**