Maths Extension White Rose Maths

Q1

Eva is trying to find the answer to

4.144 + 1.4

Here is her working out.

$$\begin{array}{r} 4.144 \\ +\ \ 1.4 \\ \hline 4.248 \\ \hline \end{array}$$

Can you spot and explain her error?

Work out the correct answer.

Q2

Place the calculations in the correct column in the table.

9.99 + 0.1	9.99 + 1
9.99 + 0.001	9.99 + 0.01

Some calculations might need to go in more than one place.

No exchange	Exchange in the ones column	Exchange in the tenths column	Exchange in the hundredths column	Exchange in the thousandths column

Add 2 more calculations to each column.

Maths Extension Testbase

Q1.

Calculate 52.85 + 143.6

1 mark

Q2.

Circle **two** numbers which **add** to make **0.12**

0.1 0.5 0.05 0.7 0.07 0.2

1 mark

Q3.

Two decimal numbers add together to equal 1

One of the numbers is 0.007

What is the other number?

1 mark

Q4.

The mass of a 10p coin is 6.5 g.

The mass of a 5p coin is half the mass of a 10p coin.

What is the mass of these six coins **altogether**?

Show your method

g

2 marks

Q5.

The first two numbers in this sequence are 2.1 and 2.2

The sequence then follows the rule

'*to get the next number, add the two previous numbers*'

Write in the next two numbers in the sequence.

2.1 2.2 4.3 6.5 ☐ ☐

2 marks

Q6.

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

☐ + ☐ + ☐ = 0.01

1 mark

Q7.

Write the **same** number in each box to make this correct.

☐ + ☐ + ☐ = 10.5

1 mark

Q1.

196.45

[1]

Q2.

0.1 0.5 (0.05) 0.7 (0.07) 0.2

Accept alternative indications, eg the numbers crossed or underlined.

[1]

Q3.

0.993

[1]

Q4.

Award **TWO** marks for the correct answer of 29.25g.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- 6.5 ÷ 2 = 3.25
  3 × 6.5 = 20.5 (*error*)
  3 × 3.25 = 9.75
  20.5 + 9.75

OR

- 10p + 5p weigh 6.5g + 3.25g = 9.75
  3 of each coin = 9.75 × 3

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q5.

Award **TWO** marks for the correct answer of

10.8 AND 17.3

If the answer is incorrect, award **ONE** mark for

either

1 m 0.8 in the first box

or

a number in the second box, which is 6.5 greater than the answer given in the first box.

Numbers must be in the correct order.

Up to 2

[2]

Q6.

Any three decimals which add to make 0.01, eg

0.005 + 0.002 + 0.003

Accept $0.00\dot{3} + 0.00\dot{3} + 0.00\dot{3}$

[1]

Q7.

Boxes completed as shown:

3.5	+	3.5	+	3.5	=	10.5

Accept 3.5 written once.

Accept $3\frac{1}{2}$

[1]