Homework
Subtract Decimals with Different Numbers of Decimal Places

National Curriculum Objectives:

Mathematics Year 5: (5F10) Solve problems involving number up to three decimal places
Mathematics Year 5: (5M9a) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Fill in the missing digits in the calculation using tenths and hundredths with no exchanges.
Expected Fill in the missing digits in the calculation using tenths, hundredths and thousandths with single exchanges.
Greater Depth Fill in the missing digits in the calculation using tenths, hundredths and thousandths with multiple exchanges.

Questions 2, 5 and 8 (Varied Fluency)
Developing Work out which group of counters represents the answer to a given calculation using tenths and hundredths with no exchanges.
Expected Work out which group of counters represents the answer to a given calculation using tenths, hundredths and thousandths with single exchanges.
Greater Depth Work out which group of counters represents the answer to a given calculation using tenths, hundredths and thousandths with multiple exchanges.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Match the word problems to the correct answers using tenths and hundredths with no exchanges.
Expected Match the word problems to the correct answers using tenths, hundredths and thousandths with single exchanges.
Greater Depth Match the word problems to the correct answers using tenths, hundredths and thousandths with multiple exchanges.

Subtract Decimals with Different Numbers of Decimal Places

1. Fill in the missing digits to make the calculations correct.

A.

$$\begin{array}{r} 4\ .\ 4\ \square \\ -\ \square\ .\ 2 \\ \hline 1\ .\ \square\ 1 \end{array}$$

B.

$$\begin{array}{r} 5\ .\ 6\ \square \\ -\ \square\ .\ 1 \\ \hline 1\ .\ \square\ 1 \end{array}$$

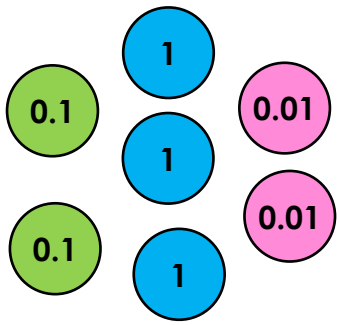
D

VF
HW/Ext

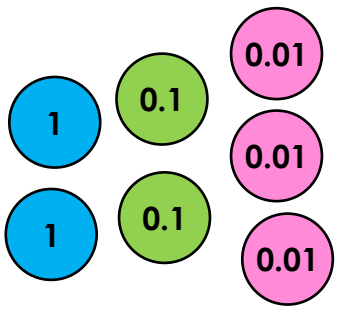
2. Which group of counters shows the answer to the following question?

5.42 – 2.2 =

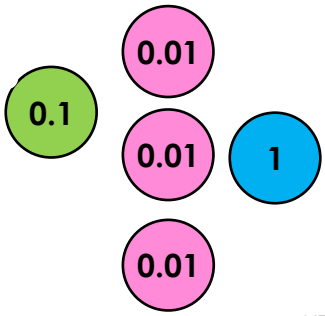
A.



B.



C.



D

VF
HW/Ext

3. Draw lines to match the word problems to the correct answers. Add the units.

A. Last week, I swam a total of 21.3km and this week I have swam 33.81km. How much further have I swam this week?	4.22__
B. I bought a piece of ribbon measuring 6.52m and cut 2.3m from it. How much did I have left?	12.51__
C. 6.45cm of rain fell in April but only 2.2cm fell in May. How much more rain fell in April?	4.25__

D

RPS
HW/Ext

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4. Fill in the missing digits to make the calculations correct.

A.

$$\begin{array}{r} \square.33 \\ -\ 6.12\square \\ \hline 2.\square02 \end{array}$$

B.

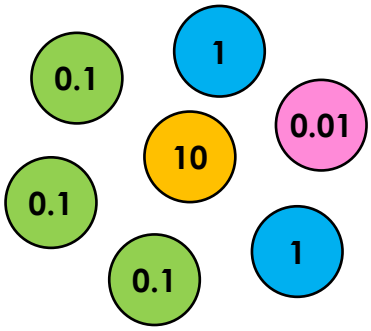
$$\begin{array}{r} 9.21\square \\ -\ \square.3\square \\ \hline 5.906 \end{array}$$

VF
HW/Ext

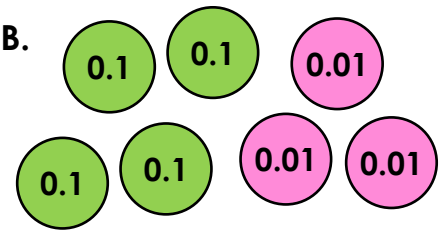
5. Which group of counters shows the answer to the following question?

4.03 – 3.6 =

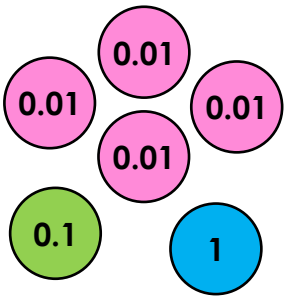
A.



B.



C.



VF
HW/Ext

6. Draw lines to match the word problems to the correct answers. Add the units.

A. A scientist measured the temperature of two liquids as 4.163 °C and 2.5 °C. What was the difference in temperature between them?	1.663__
B. When he was born, a baby weighed 3.25kg. 5 days later, he weighed 3.117kg. How much weight had he lost?	0.74__
C. Kit runs 4.8km. Harris runs 5.54km. How much further does Harris run?	0.133__

RPS
HW/Ext

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7. Fill in the missing digits to make the calculations correct.

A.

$$\begin{array}{r} 4\,.\,\square\,2\,1 \\ -\ \square\,.\,8\,9 \\ \hline 2\,.\,1\,\square\,1 \end{array}$$

B.

$$\begin{array}{r} 8\,.\,\square\,3 \\ -\ \square\,.\,1\,5\,\square \\ \hline 4\,.\,8\,7\,7 \end{array}$$

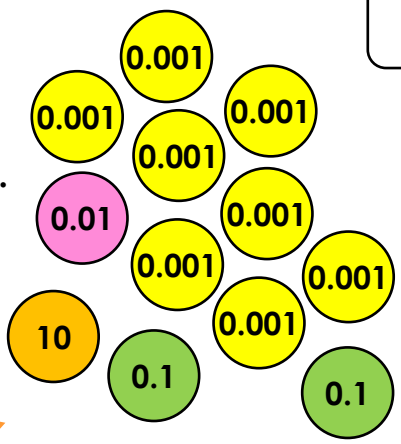
GD

VF
HW/Ext

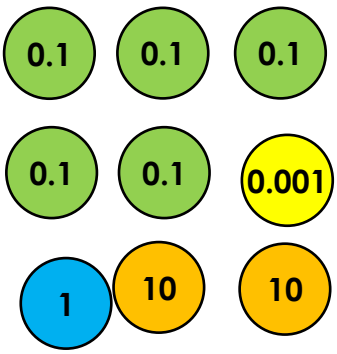
8. Which group of counters shows the answer to the following question?

21.03 – 10.812 =

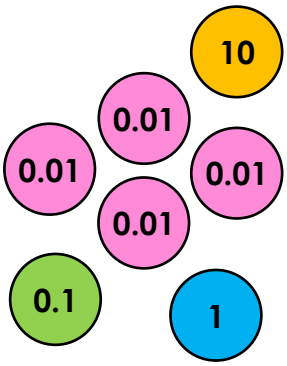
A.



B.



C.



GD

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HW/Ext

9. Draw lines to match the word problems to the correct answers. Add the units.

A. Francis has a length of rope which is 78.95 metres long. He uses 24.381m on Monday. How much does he have left?	5.831__
B. A scientist is comparing the mass of two atoms weighing 7.64g and 1.809g. What is the difference between their masses?	5.789__
C. In space, the temperature of a human body can drop from 37.38 °C to 31.591 °C. How many degrees does it drop?	54.569__

GD

RPS
HW/Ext

Homework
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Developing

1. A. 4.41 – 3.2 = 1.21 B. 5.61 – 4.1 = 1.51
2. A
3. A = 12.51km, B = 4.22m, C = 4.25cm

Expected

4. A. 8.33 – 6.128 = 2.202 B. 9.216 – 3.31 = 5.906
5. B
6. A = 1.663 °C B = 0.133kg, C = 0.74km

Greater Depth

7. A. 4.021 – 1.89 = 2.131 B. 8.03 – 3.153 = 4.877
8. A
9. A = 54.569m, B = 5.831g, C = 5.789 °C