Homework
Add Decimals with the Same Number 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, money] using decimal notation, including scaling

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Use the digit cards to complete the addition sums. Adding decimals with same decimal places involving tenths and hundredths, with no exchanges.
Expected Use the digit cards to complete the addition sums. Adding decimals with same decimal places involving ones, tenths and hundredths, with single exchanges.
Greater Depth Use the digit cards to complete the addition sums. Adding decimals with same decimal places involving tens, ones, tenths and hundredths, with multiple exchanges.

Questions 2, 5 and 8 (Varied Fluency)
Developing Complete the number sentences. Adding decimals with same decimal places involving tenths and hundredths, with no exchanges.
Expected Complete the number sentences. Adding decimals with same decimal places involving ones, tenths and hundredths, with single exchanges.
Greater Depth Complete the number sentences. Adding decimals with same decimal places involving tens, ones, tenths and hundredths, with multiple exchanges.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Add up the different possible totals. Adding decimals with same decimal places involving tenths and hundredths, with no exchanges.
Expected Add up the different possible totals. Adding decimals with same decimal places involving ones, tenths and hundredths, with single exchanges.
Greater Depth Add up the different possible totals. Adding decimals with same decimal places involving tens, ones, tenths and hundredths, with multiple exchanges.

Add Decimals with the Same Number of Decimal Places

1. Use the digit cards to complete the addition calculations.

A.

$$\begin{array}{r} 0.52 \\ +\ 0.34 \\ \hline 0.\square\square \end{array}$$

B.

$$\begin{array}{r} 0.35 \\ +\ 0.62 \\ \hline 0.\square\square \end{array}$$

9	7	8	6

D

VF
HW/Ext

2. Use the numbers below to complete the number sentences. You can only use each number once.

0.36	0.57	0.51
0.52	0.30	0.35

A. $\square + \square = 0.87$

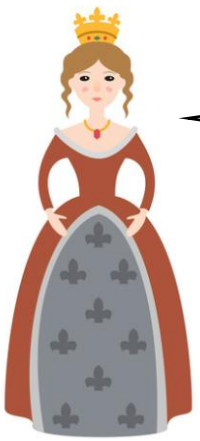
B. $\square + \square = 0.87$

C. $\square + \square = 0.87$

D

VF
HW/Ext

3. Imelda can carry a total of 0.99kg.



My crown weighs 0.11kg and my necklace weighs 0.6kg.

0.15 kg

0.14 kg

0.13 kg

D

Which two gems will she be able to take with her?

RPS
HW/Ext

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4. Use the digit cards to complete the addition calculations.

A.

$$\begin{array}{rr} & 2.59 \\ + & 4.19 \\ \hline & 6.\square\square \end{array}$$

B.

$$\begin{array}{rr} & 5.37 \\ + & 3.54 \\ \hline & 8.\square\square \end{array}$$

1	8	9	7

E

VF
HW/Ext

5. Use the numbers below to complete the number sentences. You can only use each number once.

3.76	3.81	5.96
3.69	6.08	6.01

A. $\square + \square = 9.77$

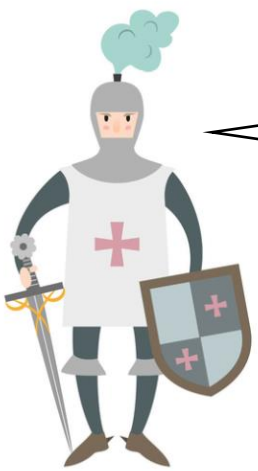
B. $\square + \square = 9.77$

C. $\square + \square = 9.77$

E

VF
HW/Ext

6. Kevin can carry a total of 8.89kg.



My sword weighs 1.06kg, my shield weighs 2.65kg and my armour weighs 4.1kg.

0.5 kg

0.59 kg

0.58 kg

0.62 kg

Which gems will he be able to take with him?

E

RPS
HW/Ext

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7. Use the digit cards to complete the addition calculations.

A.

$$\begin{array}{r} 15.59 \\ +\ 24.28 \\ \hline 39.\square\square \\ \hline \end{array}$$

B.

$$\begin{array}{r} 35.79 \\ +\ 23.41 \\ \hline 5\square.\square\square \\ \hline \end{array}$$

8	0	9	7	2

GD

VF
HW/Ext

8. Use the numbers below to complete the number sentences. You can only use each number once. Which number is the odd one out?

23.76	26.05	23.46
24.05	34.27	31.68
23.48	33.97	33.68

A. ☐ + ☐ = 57.73

B. ☐ + ☐ = 57.73

C. ☐ + ☐ = 57.73

D. ☐ + ☐ = 57.73

GD

VF
HW/Ext

9. Kendrick can carry a total of 74.99kg.

My sword weighs 10.7kg, my sceptre weighs 9.08kg, my crown weighs 2.09kg and my armour weighs 17.1kg.

11.8 kg | 11.91 kg | 11.98 kg | 12.2 kg

How many gems will he need to carry to reach his exact maximum weight? You can take up to two of each colour.

GD

RPS
HW/Ext

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Developing

1. A. 0.86; B. 0.97
2. 0.36 + 0.51 = 0.87; 0.57 + 0.30 = 0.87; 0.52 + 0.35 = 0.87
3. Imelda is already carrying 0.71kg of weight. She could take the blue gem (0.13kg) and red gem (0.15kg) to make 0.99kg, or the blue gem (0.13kg) and purple gem (0.14kg) to make 0.98kg.

Expected

4. A. 6.78; B. 8.91
5. 3.76 + 6.01 = 9.77; 5.96 + 3.81 = 9.77; 6.08 + 3.69 = 9.77
6. Kevin is already carrying 7.81kg of weight. He can only take the green gem (0.58kg) or red gem (0.5kg) to make 8.89kg.

Greater Depth

7. A. 39.87; B. 59.20
8. 23.76 + 33.97 = 57.73; 26.05 + 31.68 = 57.73; 23.46 + 34.27 = 57.73; 24.05 + 33.68 = 57.73; the odd one out is 23.48.
9. Kendrick is already carrying 38.97kg of weight. He can only take two purple gems (11.91kg each) and one blue (12.2kg) to make an exact total of 74.99kg.