Maths - Planning and Ideas Week Commencing: 11th May 2020 – Adding and Subtracting Decimals

Year Groups: 5

Note: When/If using the White Rose Maths website for the videos, the days on the website don't correspond with the real date. Look at the title of the lesson and the week number written in the plan to locate the lesson. You may need to scroll right the way down to the bottom of the page to find them. If anyone is struggling to find the videos or needs any help with this, please get in touch. Thanks! Miss Todd.

Starter Times Table Rockstars Link - https://ttrockstars.com/

White Rose Maths Link https://whiterosemaths.com/homelearning/year-5/

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	**Can you add decimals with the same number of decimal places?**	**Can you subtract decimals with the same number of decimal places?**	**Can you add decimals with a different number of decimal places?**	**Can you subtract decimals with a different number of decimal places?**	**Arithmetic Activity**
Activity	**Starter: Times Table Rockstars** **Main Teaching:** *Watch the Lesson video. It is located in Lesson 1 'Adding decimals with the same number of decimal places' in Summer Term Week 2 (w/c 27th April).* Complete the examples using column addition with the teacher on the video. Don't forget to put the decimal point in the column addition! **Activity** Complete Worksheet 1 (completing the decimal column additions) If you want a challenge, try Worksheet 2 (reasoning and problem solving worksheet)	**Starter: Times Table Rockstars** **Main Teaching:** *Watch the Lesson video. It is located in Lesson 2 'Subtracting decimals with the same number of decimal places' in Summer Term Week 2 (w/c 27th April).* This lesson is very similar to yesterday, but today we are subtracting the decimals. Look at what the teacher is doing with the place value grid and counters, but you should complete them as column subtractions. **Activity** Complete the worksheet – Column subtractions using decimals. Use column subtractions to work out the problems about the items in a shop.	**Starter: Times Table Rockstars** **Main Teaching:** *Watch the Lesson video. It is located in Lesson 3 'Adding decimals with a different number of decimal places' in Summer Term Week 2 (w/c 27th April).* Again, look at what the teacher is doing with the place value grid and counters, but you should complete them as column additions. It is important that you know that the empty space should be represented with a 0. **Activity** Complete Worksheet 1 – column additions. If you are feeling confident, try Worksheet 2 (reasoning and problem solving)	**Starter: Times Table Rockstars** **Main Teaching:** *Watch the Lesson video. It is located in Lesson 4 'Subtracting decimals with a different number of decimal places' in Summer Term Week 2 (w/c 27th April).* Again, it is important that you know that the empty space should be represented with a 0. **Activity** Complete Worksheet 1 – column subtractions. If you are feeling confident, try Worksheet 2 (reasoning and problem solving)	At the bottom of this document, there is a link to an Arithmetic Test for you to complete. If you can't print it out (there are 12 pages!), you could work out the answers on a scrap piece of paper. The answers are included at the end. Good luck!

Monday Worksheet 1.

a)
$$\begin{array}{r} 5.3 \\ +\ 2.5 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 6.03 \\ +\ 3.91 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 2.32 \\ +\ 0.17 \\ +\ 1 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 6.37 \\ +\ 6.26 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 3.102 \\ +\ 5.876 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 2.034 \\ +\ 9.227 \\ +\ 1 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 5.75 \\ 5.32 \\ +\ 5.01 \\ \hline \end{array}$$

h)
$$\begin{array}{r} 1.499 \\ +\ 1.237 \\ \hline \end{array}$$

Monday – reasoning and problem solving questions
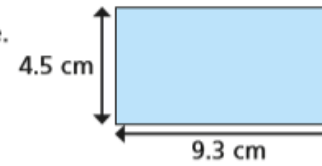
Work out the calculations.

Write <, > or = to make the statements correct.

a)   0.64 + 4.79   ◯   5.01 + 0.23

b) 7.427 + 3.238   ◯   5.427 + 5.832

c)   3.08 + 4.63   ◯   4.84 + 2.87

Work out the perimeter of the shape.

4.5 cm

9.3 cm

perimeter = [   ] cm

a)

	5	.	3	
+	2	.	5	
	7	**.**	**8**	

b)

	6	.	0	3
+	3	.	9	1
	9	**.**	**9**	**4**

c)

	2	.	3	2
+	1	0	.	1	7
1	**2**	**.**	**4**	**9**

d)

	6	.	3	7
+	6	.	2	6
1	**2**	**.**	**6**	**3**

e)

	3	.	1	0	2
+	5	.	8	7	6
	8	**.**	**9**	**7**	**8**

f)

	1	2	.	0	3	4
+		9	.	2	2	7
2	**1**	**.**	**2**	**6**	**1**

g)

	5	.	7	5
	5	.	3	2
+	5	.	0	1
1	**6**	**.**	**0**	**8**

h)

	1	4	.	9	9
+	1	2	.	3	7
2	**7**	**.**	**3**	**6**

Monday Worksheet 1 + 2 Answers
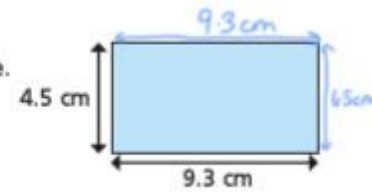
Work out the calculations.

Write <, > or = to make the statements correct.

a) $0.64 + 4.79$ ⟩ $5.01 + 0.23$

b) $7.427 + 3.238$ ⟨ $5.427 + 5.832$

c) $3.08 + 4.63$ = $4.84 + 2.87$

Work out the perimeter of the shape.

9.3 cm
4.5 cm
6.5 cm
9.3 cm

$4.5 + 9.3 + 4.5 + 9.3$

$= 9 + 18.6$

$= 27.6$

perimeter = **27.6** cm

Tuesday Worksheet

Complete the column subtractions.

a)

	5	.	6	4
−	3	.	1	2
		.		

c)

	8	.	0	9
−	3	.	8	1
		.		

b)

	5	.	6	4
−	3	.	1	5
		.		

d)

	1	2	.	0	2
−	1	1	.	3	8
			.		

Here are some items for sale in a shop.

£2.27   £9.10   £4.91   £1.09

a) How much more does a scarf cost than a bag of marbles?

£ ☐

b) Esther has £15.31

She buys a pair of headphones and a bag of marbles.

How much money does she have left?

£ ☐

c) Tom has £7.01

He buys one item and has £5.92 left.

What did he buy?

Tuesday – Worksheet Answers

Here are some items for sale in a shop.

£2.27   £9.10   £4.91   £1.09

a) How much more does a scarf cost than a bag of marbles?

Complete the column subtractions.

a)
```
    5 · 6   4
  - 3 · 1   2
    2 · 5   2
```

c)
```
    ⁷8 · ⁰0   9
  - 3 · 8    1
    4 · 2    8
```

£ 2·64

b) Esther has £15.31

She buys a pair of headphones and a bag of marbles.

How much money does she have left?

£ 3·94

b)
```
    5 · ⁵6̸ ⁴4
  - 3 · 1  5
    2 · 4  9
```

d)
```
    1   ²2 · ⁰0̸  ¹2
  - 1   1 · 3   8
    0   0 · 6   4
```

c) Tom has £7.01

He buys one item and has £5.92 left.

What did he buy?

Tom bought _a keyring_.

Wednesday Worksheet 1

Work out the additions.

a)

		3	•	0	2	
	+	1	•	6		
			•			

c)

		2	•	8		
	+	3	•	4	5	
			•			

b)

		1	3	•	5	
	+		0	•	2	3
				•		

d)

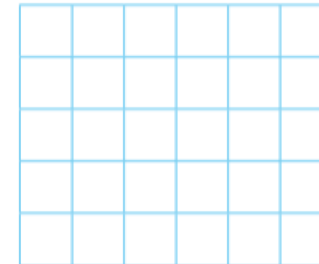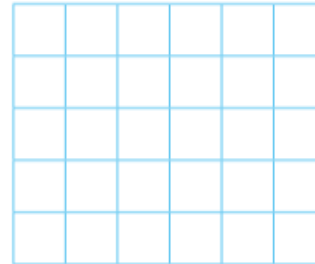|			6	•	1	5
	+	1	3	•	9	
				•		

Use the column method to work out the additions.

a) 0.59 + 11.9

c) 0.591 + 1.73

b) 77.34 + 1.82

d) 3.2 + 1.84 + 0.931
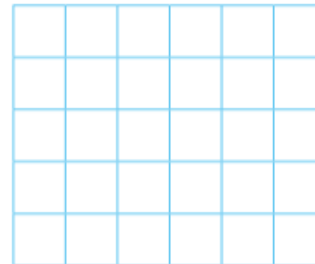
Here are four number cards.

| 3.8 | 4.19 | 0.72 | 11.46 |

a) What is the greatest total you can make by adding two of the numbers?

Complete the calculation.

☐ + ☐ = ☐

b) What is the sum of the four numbers?

☐

Work out the missing digits.

a) __4.3 + 1__.37 = 39.67   b) 4.8__ + __.__ = 12.65

Wednesday Worksheet 1 Answers

Work out the additions.

a)

```
    3 . 0   2
 +  1 . 6
    4 . 6   2
```

b)

```
  1   3 . 5
 +    0 . 2   3
  1   3 . 7   3
```

c)

```
      2 . 8
 +    3 . 4   5
      6 . 2   5
          ₁
```

d)

```
      6 . 1   5
 +  1 3 . 9
  2 0 . 0   5
      ₁ ₁
```

Use the column method to work out the additions.

a) 0.59 + 11.9

```
    0 . 5   9
 +  1 1 . 9
  1 2 . 4   9
        ₁
```

b) 77.34 + 1.82

```
    7 7 . 3   4
 +      1 . 8   2
    7 9 . 1   6
            ₁
```

c) 0.591 + 1.73

```
    0 . 5   9   1
 +  1 . 7   3
    2 . 3   2   1
        ₁   ₁
```

d) 3.2 + 1.84 + 0.931

```
    3 . 2
    1 . 8   4
 +  0 . 9   3   1
    5 . 9   7   1
        ₁
```

Wedesday – Reasoning and Problem Solving Answers

Here are four number cards.

| 3.8 | 4.19 | 0.72 | 11.46 |

a) What is the greatest total you can make by adding two of the numbers?

Complete the calculation.

11.46 + 4.19 = 15.65

b) What is the sum of the four numbers?

20.17

Work out the missing digits.

a) 2 4.3 + 1 5 .37 = 39.67

b) 4.8 5 + 7 . 8 = 12.65

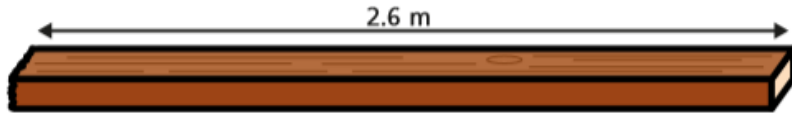Thursday Worksheet 1

Complete the subtractions.

a)

	2	.	3	6
−	1	.	4	
		.		

b)

	6	.	1	5
−	3	.	8	
		.		

c)

	7	.	3	
−	1	.	1	5
		.		

d)

	2	4	.	4	
−		3	.	1	2
			.		

Use the column method to work out the subtractions.

a) 13.59 − 1.82

c) 5.6 − 1.39

b) 73.84 − 9.2

d) 18.2 − 3.64

Thursday Worksheet 2 (Reasoning and Problem Solving)

A plank of wood measures 2.6 m.

A carpenter cuts a piece of wood from the plank that is 0.52 m long.

2.6 m

a) What is the length of the remaining plank?

[   ] m

b) The carpenter cuts a second piece of wood from the plank.

She now has 0.3 m of the plank remaining.

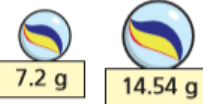What is the length of the second piece of wood that she cut?

[   ] m

The mass of a bag of marbles is 54.3 g.

These two marbles are removed from the bag.　[7.2 g]　[14.54 g]

What is the mass of the bag of marbles now?

[   ] g

Work out the missing digits.

__3.4 – 2.5__ = 10.81

Challenge Question!

Thursday Worksheet 1 Answers

Complete the subtractions.

Use the column method to work out the subtractions.

a) 13.59 – 1.82

a)

	¹2	.	³1 3	6
–		1	. 4	
	0	.	9	6

c)

	7	.	²³ 3	¹0
–		1	. 1	5
		6	. 1	5

a) 13.59 – 1.82

		2		
	1	3 . 5	9
–		1 . 8	2
	1	1 . 7	7

c) 5.6 – 1.39

	5	.	⁵6	¹0
–	1	. 3	9
	4	. 2	1

b) 73.84 – 9.2

b)

	⁵6	.	¹1	5
–	3	. 8	
	2	. 3	5

d)

	2	4	.	³4	¹0
–		3	. 1	2
	2	1	. 2	8

b) 73.84 – 9.2

	6			
	7	3 . 8	4
–		9 . 2	
	6	4 . 6	4

d) 18.2 – 3.64

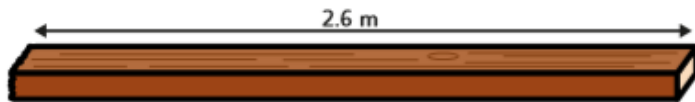|	1	⁷8	.	²1	¹¹0
–		3	. 6	4
	1	4	. 5	6

Thursday – Worksheet 2 (reasoning and problem solving) Answers

A plank of wood measures 2.6 m.

A carpenter cuts a piece of wood from the plank that is 0.52 m long.

2.6 m

a) What is the length of the remaining plank?

| 2·08 | m

b) The carpenter cuts a second piece of wood from the plank.

   She now has 0.3 m of the plank remaining.

   What is the length of the second piece of wood that she cut?

Work out the missing digits.

| 1·78 | m

Challenge Question Answer   _1_ 3.4 – 2.5_9_ = 10.81

The mass of a bag of marbles is 54.3 g.

These two marbles are removed from the bag.   7.2 g   14.54 g

What is the mass of the bag of marbles now?

| 32·56 | g

Link for Friday's Activity

https://www.phjs.co.uk/wp-content/uploads/2016/09/Y5-Arithmetic-Full-Test-5.pdf