

Maths Planning and Ideas



Week Commencing: 15th June 2020

Year Group: 4

Mathematical Focus: Decimals

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Write Decimals	Compare Decimals	Order Decimals	Round Decimals	Friday Maths Challenge
Activity	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children. There is also a whole school battle of girls versus boys too.</i></p> <p>Main: White Rose Maths - Watch Summer Week 8 Lesson 1 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children. There is also a whole school battle of girls versus boys too.</i></p> <p>Main: White Rose Maths - Watch Summer Week 8 Lesson 2 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children. There is also a whole school battle of girls versus boys too.</i></p> <p>Main: White Rose Maths - Watch Summer Week 8 Lesson 3 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children. There is also a whole school battle of girls versus boys too.</i></p> <p>Main: White Rose Maths - Watch Summer Week 8 Lesson 4 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children. There is also a whole school battle of girls versus boys too.</i></p> <p>Main: White Rose Maths - Watch Summer Week 8 Lesson 5 – Daily Challenge https://whiterosemaths.com/homelearning/year-4/</p> <p>Good luck!</p>

<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1-Answers-Write-decimals-2020.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Answers-Compare-decimals-2020.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Order-decimals-2020.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here:</p> <p>https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4-Answers-Round-decimals-2020.pdf</p> <p>No peeking until after you have had a go.</p>	
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15.06.2020

LC: Can you write decimals?

Write decimals



1 Make the number represented on each of the place value charts. Complete the sentences to describe each number.

a)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01 0.01 0.01

 There are ones,
 tenths and
 hundredths.

The number is

b)

Ones	Tenths	Hundredths
	0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01

 There are ones,
 tenths and
 hundredths.

The number is

c)

Ones	Tenths	Hundredths
1 1 1		0.01 0.01 0.01 0.01 0.01 0.01 0.01

 There are ones,
 tenths and
 hundredths.

The number is

d)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1	

 There are ones,
 tenths and
 hundredths.

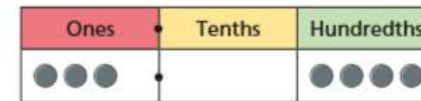
The number is



2 Make each number on a place value chart. Write the value of the underlined digit.

- a) 6.31 _____
- b) 12.09 _____
- c) 0.07 _____
- d) 56.82 _____

3 Alex says the number on the place value chart is 3.4



Do you agree with Alex? _____
 Explain your answer.

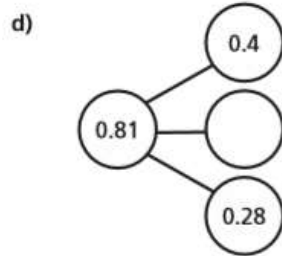
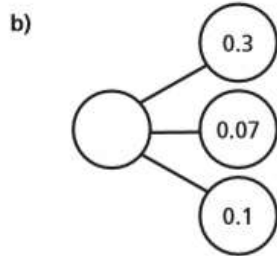
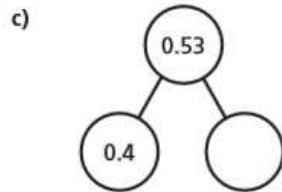
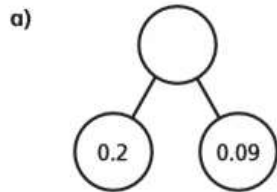
4 Fill in the zeros needed as placeholders for each number.

<p>a) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td>3</td> <td>2</td> <td>●</td> <td>4</td> </tr> </table></p> <p>b) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td></td> <td>2</td> <td>●</td> <td>4</td> </tr> </table></p> <p>c) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td></td> <td></td> <td>●</td> <td>4</td> </tr> </table></p>	T	O	Tths	Hths	3	2	●	4	T	O	Tths	Hths		2	●	4	T	O	Tths	Hths			●	4	<p>d) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td></td> <td></td> <td>●</td> <td>5</td> </tr> </table></p> <p>e) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td></td> <td>2</td> <td>●</td> <td></td> </tr> </table></p> <p>f) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <th style="background-color: #fff3cd;">T</th> <th style="background-color: #f8d7da;">O</th> <th style="background-color: #fff3cd;">Tths</th> <th style="background-color: #d4edda;">Hths</th> </tr> <tr> <td>3</td> <td></td> <td>●</td> <td>5</td> </tr> </table></p>	T	O	Tths	Hths			●	5	T	O	Tths	Hths		2	●		T	O	Tths	Hths	3		●	5
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Compare answers with a partner.

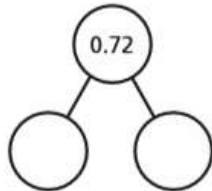


5 Complete the part-whole models.



6 Here is a part-whole model.

Partition 0.72 in three different ways and complete the number sentences.



$$\square + \square = 0.72$$

$$\square + \square = 0.72$$

$$\square + \square = 0.72$$

7 Eva is asked to show 10 tenths on a place value chart.

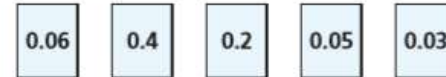
Here is her answer.

Ones	Tenths	Hundredths
	●●●●●●●●●●	

Is Eva correct?

8 Here are five number cards.

Annie, Rosie, Jack, Dora and Whitney take one card each.



Use the clues to work out which number they each have.

Annie: My number has 5 hundredths.

Rosie: My number is twice as much as Dora's.

Jack: My number has 2 zero place holders.

Whitney: My number is less than Jack's.

Dora: My number is more than Jack's.

Annie Dora Whitney

Rosie Jack

Did your partner use the same method?

16.06.2020

LC: Can you compare decimals?

Compare decimals



1 Write < or > to compare the decimals.

a)

0	Tths	Hths
	0.05 0.05	0.01 0.01 0.01

0	Tths	Hths
	0.05 0.05 0.05	0.01 0.01 0.01

b)

0	Tths	Hths
1 1 1	0.05	0.01 0.01 0.01

0	Tths	Hths
1 1 1	0.05 0.05 0.05	0.01 0.01 0.01

c)

0	Tths	Hths
1 1 1	0.05	0.01 0.01 0.01

0	Tths	Hths
1 1	0.05 0.05	0.01 0.01 0.01

d)

0	Tths	Hths
1 1	0.05 0.05	0.01 0.01 0.01

0	Tths	Hths
1 1	0.05 0.05	0.01 0.01 0.01

Did you have to compare all the columns for every question?

2 Draw counters to make the statements correct.

a)

0	Tths	Hths
1 1 1	0.05	0.01 0.01 0.01

 <

0	Tths	Hths

b)

0	Tths	Hths
1 1 1	0.05	0.01 0.01 0.01

 >

0	Tths	Hths
1 1 1		

3 Write < or > to compare the decimals.

a)

0	Tths	Hths
7	6	8

0	Tths	Hths
7	0	2

b)

0	Tths	Hths
3	2	5

0	Tths	Hths
3	9	6

c)

0	Tths	Hths
0	4	1

0	Tths	Hths
0	2	9

d)

0	Tths	Hths
1	0	3

0	Tths	Hths
1	2	0

e)

0	Tths	Hths
2	7	2

0	Tths	Hths
2	7	1

4 Complete the place value charts to make the statements correct.

a)

0	Tths	Hths
6	2	8

 <

0	Tths	Hths

b)

0	Tths	Hths
3	2	6

 >

0	Tths	Hths
3		

c)

0	Tths	Hths
9	9	8

 <

0	Tths	Hths

d)

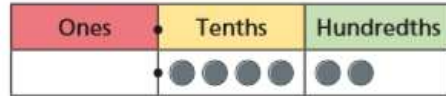
0	Tths	Hths
1	4	6

 >

0	Tths	Hths
	8	

- 5 Ron and Amir have each made a number using counters on a place value chart.

Ron's looks like this:



Amir's looks like this:



My number is greater than Amir's, because I have used twice as many counters.



Do you agree with Ron? _____

Explain your reasoning.

- 6 Draw exactly 8 counters in each chart to represent a number that matches each statement.

a) a number less than 0.76



b) a number more than 5.74



c) a number between 5.13 and 5.29



How many different answers are there for each statement?

- 7 Write < or > to compare the numbers.

a) $3.2 \bigcirc 3.8$ c) $1 \bigcirc 0.99$
 b) $1.46 \bigcirc 1.43$ d) $0.16 \bigcirc 0.8$

- 8 Fill in the missing digits to make the statements correct.

a) $0.34 < 0.3_$ d) $1.3_ < 1.3_$
 b) $2.42 > 2.4_$ e) $2._2 > 2._2$
 c) $0.74 < 0._2$ f) $0.8_ < 0._9$

Is there more than one answer for each?

- 9 Here are four digit cards.



Use each digit card once to make this statement correct.

$$\square . \square > \square . \square$$

How many possible answers are there?



17.06.2020

LC: Can you order decimals?

Order decimals



1 Here are four numbers on place value charts.

a) What number is represented in each place value chart?

A

Ones	Tenths	Hundredths
1 1 1	0.1	0.01 0.01 0.01 0.01

B

Ones	Tenths	Hundredths
1 1 1 1	0.1	0.01 0.01 0.01 0.01

C

Ones	Tenths	Hundredths
1 1 1	0.1	0.01 0.01 0.01 0.01 0.01

D

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01

b) Write the numbers in ascending order.

smallest

greatest

2 a) Write digits to show the number represented in each place value chart.

O	Tths	Hths
1	0.01 0.01 0.01 0.01	0.001 0.001

O	Tths	Hths
1 1		0.001 0.001 0.001 0.001 0.001 0.001

O	Tths	Hths
1 1	0.01 0.01 0.01	

O	Tths	Hths
1	0.01 0.01 0.01	0.001 0.001 0.001

b) Write the numbers in ascending order.

3 Write the numbers in descending order.

1.42	4.12	1.24	2.41
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4 Teddy's teacher asks him to put some numbers in ascending order.

Here is his answer.

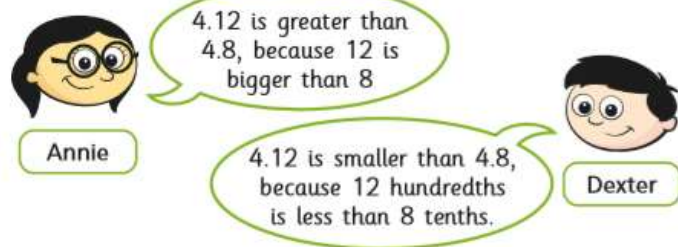
0.64	12.7	2.83
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Do you agree with Teddy? _____

Talk about it with a partner.



- 5 Annie and Dexter are comparing the decimals 4.12 and 4.8



Who do you agree with? _____

Explain your answer.

- 6 Write < or > to complete the statements.

Decide whether the numbers are ascending or descending in each part.

a) 3.2 ○ 3.8 ○ 3.9 _____

b) 0.41 ○ 0.38 ○ 0.25 _____

c) 4.2 ○ 4.17 ○ 4.085 _____

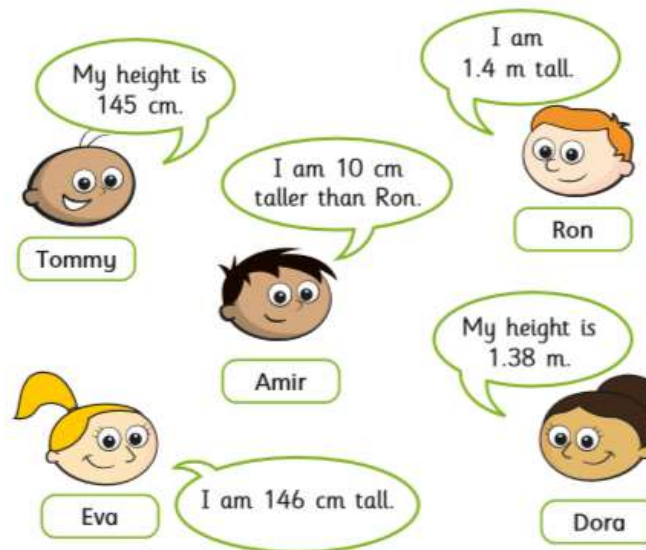
- 7 Write the numbers in ascending order.

a) 2.38 0.97 1.45 1.81

b) 0.64 0.7 0.09 0.46

c) 12.3 2 7.83 0.99

- 8 Tommy, Ron, Amir, Dora and Eva have measured their heights.



Write the children's names in order from shortest to tallest.

- 9 Here are two lists of numbers.

Use the digits 0 to 9 once each to complete the lists.

ascending order 4 41 7 9 41

descending order 41 7 9 41 4

Compare answers with a partner.

Is there more than one way to complete each list?

18.06.2020

LC: Can you round decimals?

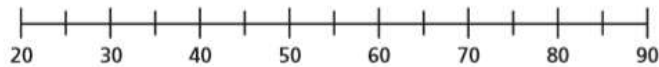
Round decimals



1 Here are some number cards.



a) Draw arrows to estimate the position of the numbers on the number line.



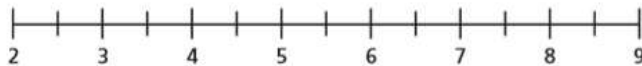
b) Use the numbers to complete the sentences.

- is closer to 50 than 40
- is closer to 30 than 20
- is closer to 80 than 90
- is closer to 60 than 70

2 Here are some number cards.



a) Draw arrows to estimate the position of the numbers on the number line.

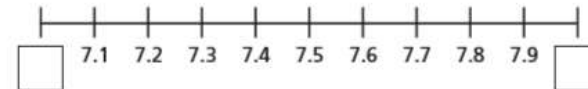


b) Use the numbers to complete the sentences.

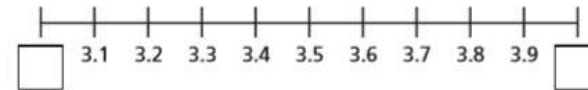
- is closer to 5 than 4
- is closer to 3 than 2
- is closer to 8 than 9
- is closer to 6 than 7

3 Fill in the integers on the number lines.

a)



b)

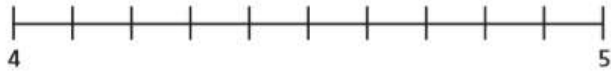


4 Which integers do the numbers lie between?

Fill in the boxes to make the statements correct.

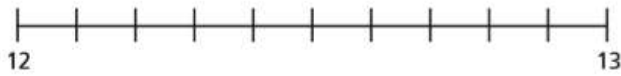
- a) < 1.4 <
- b) < 34.8 <
- c) < 0.7 <

- 5 a) Label 4.3 on the number line.



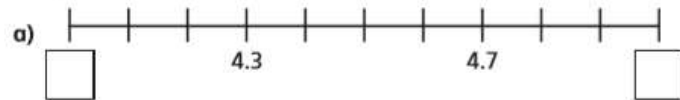
Is it closer to 4 or 5?

- b) Label 12.8 on the number line.



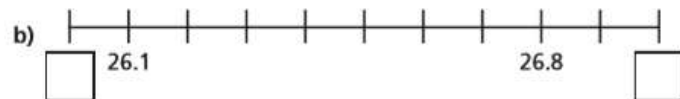
Is it closer to 12 or 13?

- 6 Complete the number lines and sentences.



is closer to than

is closer to than



is closer to than

is closer to than

- 7 Which numbers round up to the nearest whole number?

Circle your answers.

4.1 2.8 0.7 12.3 0.5 99.3

- 8 Round each decimal to the nearest whole number.

- | | | | |
|--------|----------------------|---------|----------------------|
| a) 1.8 | <input type="text"/> | e) 13.7 | <input type="text"/> |
| b) 4.2 | <input type="text"/> | f) 20.1 | <input type="text"/> |
| c) 0.9 | <input type="text"/> | g) 0.4 | <input type="text"/> |
| d) 1.5 | <input type="text"/> | h) 99.8 | <input type="text"/> |

- 9 Ron is rounding 8.2 to the nearest whole number.



Because 2 tenths is less than 5 tenths, the number rounds down to 7

Do you agree with Ron? _____

Explain your answer.

- 10 Tommy is thinking of a number that has one decimal place.

When he rounds his number to the nearest whole, the answer is 32

What number could Tommy be thinking of?

Are there any other answers?

Where can I complete further work?

[Twinkl](#) – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, PowerPoints and interactive games to support all areas of learning.

[Classroom Secrets](#) – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

[White Rose Maths](#) – Free Maths home learning resources for all ages. Watch the videos and try the questions.

[Primary Stars](#) – Free Maths home learning packs for Year 1 and 2.

[BBC Bitesize Primary](#) – Free learning resources available for KS1 and KS2 across all subjects.

[I See Maths](#) – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

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[ICT Games](#) – Free educational resources and games for English and Maths.