Homework/Extension
Step 4: Order Decimals

National Curriculum Objectives:

Mathematics Year 4: (4F8) Compare numbers with the same number of decimal places up to two decimal places
Mathematics Year 4: (4F10b) Solve simple measure and money problems involving fractions and decimals to two decimal places

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Complete the number line by adding appropriate decimal numbers including tenths and hundredths. Numbers to be written in numerals only without zero as a place holder.
Expected Complete the number line by adding appropriate decimal numbers including ones, tenths and hundredths. Numbers to be written in numerals and words and include zero as a place holder.
Greater Depth Complete the number line by adding appropriate decimal numbers including tens, ones, tenths and hundredths. Numbers to be written in numerals and words, include zero as a place holder and exchanges.

Questions 2, 5 and 8 (Varied Fluency)
Developing Order the decimal numbers in descending order. Numbers include tenths and hundredths. Numbers to be written in numerals only without zero as a place holder.
Expected Order the decimal numbers in descending order. Numbers include ones, tenths and hundredths and use zero as a place holder.
Greater Depth Order the numbers in descending order. Numbers include tens, ones, tenths and hundredths and use zero as a place holder.

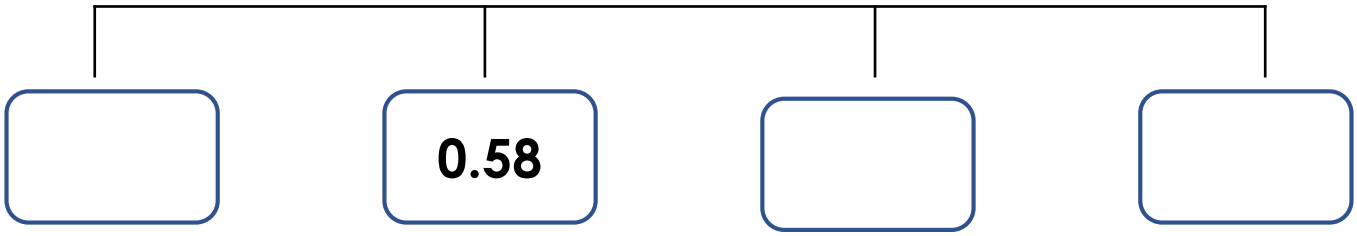
Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Explain if the decimal numbers are ordered correctly. Numbers include tenths and hundredths and do not use zero as a place holder.
Expected Explain if the decimal numbers are ordered correctly. Numbers include ones, tenths and hundredths and use zero as a place holder. Includes conversions.
Greater Depth Explain if the decimal numbers are ordered correctly. Numbers include tens, ones, tenths and hundredths and use zero as a place holder. Includes conversions.

More Year 4 Decimals resources.

Did you like this resource? Don't forget to review it on our website.

Order Decimals

1. Complete the number line below using an appropriate decimal number. Write all the numbers as decimals from smallest to biggest.



D

VF
HW/Ext

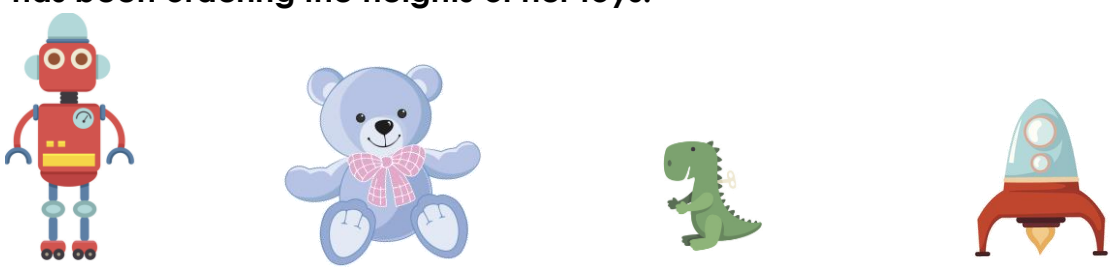
2. Order the heights of the flowers below from biggest to smallest.

0.45m	0.22m	0.56m	0.99m

D

VF
HW/Ext

3. Sally has been ordering the heights of her toys.



Robot	Teddy Bear	Dinosaur	Rocket
0.93m	> 0.85m	> 0.24m	> 0.56m

Is Sally correct? Explain your answer.

D

RPS
HW/Ext

Order Decimals

4. Complete the ascending number line below using an appropriate decimal number. Write all the numbers as decimals.

	2.05	Three ones and three hundredths		Five ones and three tenths	

E

VF
HW/Ext

5. Order the heights of the aliens below in descending order.






5.04cm	9.82cm	1.76cm	6.07cm	2.60cm	0.85cm

E

VF
HW/Ext

6. Kim has been ordering the heights of her friends.






Lilian		Adnan		Harry		Jerry		Amirah		Nick
1.01m	<	121cm	<	1.32m	<	1.08m	<	1.39m	<	140cm

Is Kim correct? Explain your answer.

E

RPS
HW/Ext

Order Decimals

7. Complete the ascending number line below using an appropriate decimal number. Write all the numbers as decimals.

	34.05	Forty-three ones and twelve hundredths		Fifty-five ones and thirteen hundredths	

GD

VF
HW/Ext

8. Order the heights of the toy pirates below in descending order.



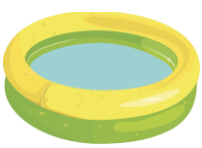



23.68cm	56.05cm	15.04cm	15.40cm	68.68cm	56.50cm

GD

VF
HW/Ext

9. Tom has been ordering his containers based on the amount of liquid inside.





11.05L > 5.50L > 1,800ml = 1.08L > 4,200ml > 0.45ml

Is Tom correct? Explain your answer.

GD

RPS
HW/Ext

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Developing

1. Various possible answers including: 0.34, 0.58, 0.72, 0.96 or 0.26, 0.58, 0.64, 0.81
2. 0.99m, 0.56m, 0.45m, 0.22m
3. Sally is incorrect because the rocket is taller than the dinosaur so the order should be: 0.93m > 0.85m > 0.56m > 0.24m

Expected

4. Various possible answers including: 1.67, 2.05, 3.03, 4.56, 5.30, 6.36 or 0.56, 2.05, 3.03, 3.55, 5.30, 7.42
5. 9.82cm, 6.07cm, 5.04cm, 2.60cm, 1.76cm, 0.85cm
6. Kim is incorrect because Jerry is smaller than Harry and Adnan so the order should be: 1.01m < 1.08m < 121cm < 1.32m < 1.39m < 140cm

Greater Depth

7. Various possible answers including: 25.50, 34.05, 44.02, 50.56, 56.30, 75.73 or 10.60, 34.05, 44.02, 52.67, 56.30, 65.30
8. 68.68cm, 56.50cm, 56.05cm, 23.68cm, 15.40cm, 15.04cm
9. Tom is incorrect for two reasons. One, because 1,800ml is not equal to 1.08L and two, 4,200ml is a larger capacity than 1,800ml so the order should be: 11.05L > 5.50L > 4,200ml > 1,800ml = 1.8L > 0.45ml