

Homework/Extension

Step 1: Three Decimal Places

National Curriculum Objectives:

Mathematics Year 6: (6F9a) [Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places](#)

Mathematics Year 6: (6F10) [Solve problems which require answers to be rounded to specified degrees of accuracy](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use understanding of place value in numbers with up to 3 decimal places to identify if numbers are ordered correctly. Includes no exchanging. Place value counters used for support. No use of zero.

Expected Use understanding of place value in numbers with 3 decimal places to identify if numbers are ordered correctly. Some problems include exchanging. Place value counters used for support. Some use of zero.

Greater Depth Use understanding of place value in numbers with 3 decimal places to identify if numbers are ordered correctly. Problems include exchanging. Some use of zero. No pictorial representation.

Questions 2, 5 and 8 (Varied Fluency)

Developing Understand the value of each digit in numbers with up to 3 decimal places. Includes no exchanging. Place value counters used for support. No use of zero.

Expected Understand the value of each digit in numbers with 3 decimal places. Some problems include exchanging. Place value counters used for support. Some use of zero.

Greater Depth Understand the value of each digit in numbers with 3 decimal places. Problems include exchanging. Some use of zero. No pictorial representation.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Use understanding of place value in numbers with up to 2 decimal places to create numbers larger and smaller than given numbers. Includes no exchanging and no use of zero.

Expected Use understanding of place value in numbers with 3 decimal places to create numbers larger and smaller than given numbers. Includes use of zero.

Greater Depth Use understanding of place value in numbers with 3 decimal places to create numbers larger and smaller than given numbers. Includes exchanging and use of zero.

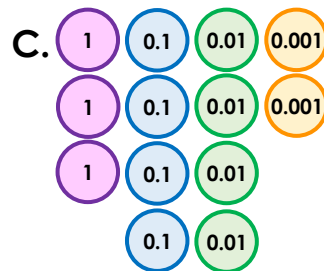
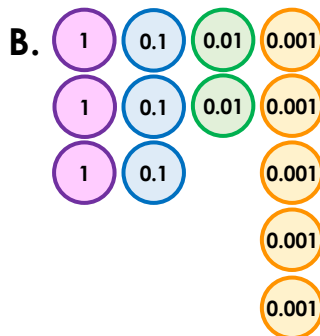
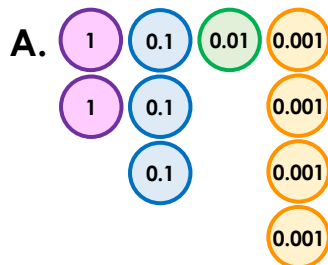
More [Year 6 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Three Decimal Places

1. True or false? The numbers below have been ordered correctly from smallest to largest.

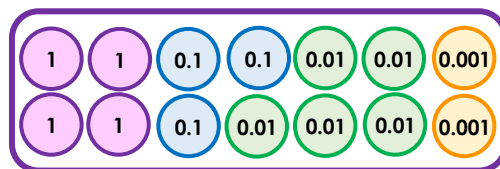
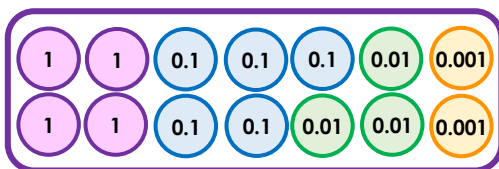
Smallest \longrightarrow Largest



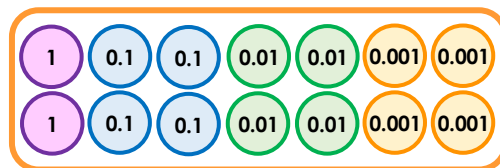
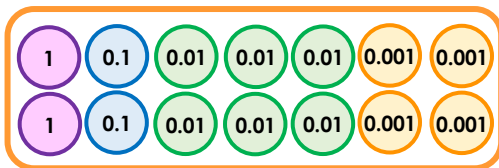
VF
HW/Ext

2. Circle the representation in each row which has the largest number of tenths.

A. 4.436



B. 2.371



VF
HW/Ext

3. Use the digit cards to create a number that is larger than Tara's but smaller than Albert's. Find 1 more solution.

Tara's number is 1.36.



4

1

2

8

Albert's number is 1.59.



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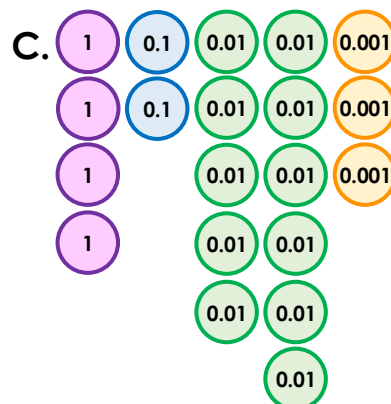
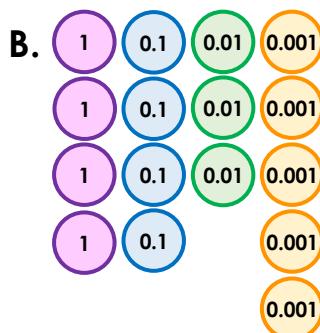
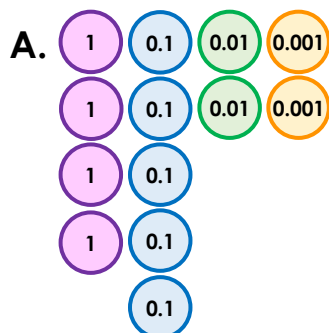


RPS
HW/Ext

Three Decimal Places

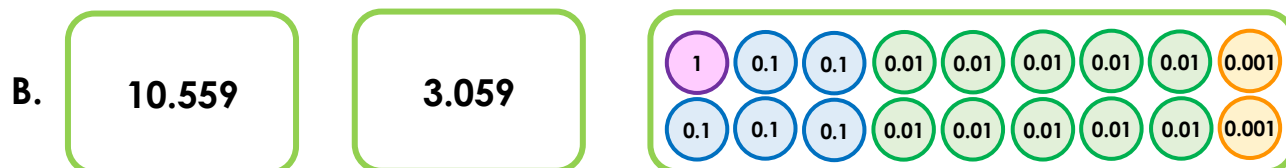
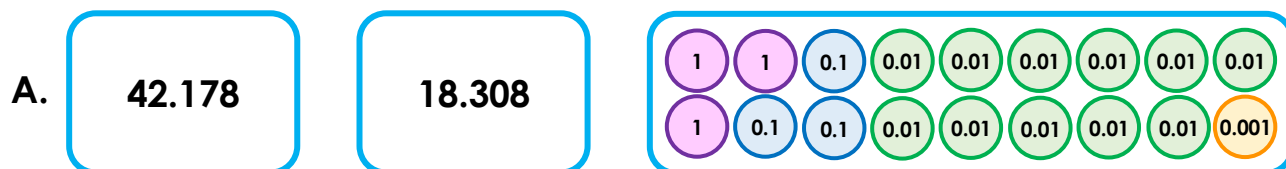
4. True or false? The numbers below have been ordered correctly from smallest to largest.

Smallest
→
 Largest



VF
HW/Ext

5. Circle the representation in each row which has the largest number of tenths.



VF
HW/Ext

6. Use the digit cards to create a number that is larger than Milly's but smaller than Jamie's. Find 2 more solutions.

Milly's number is 3.015.



5

3

1

2

Jamie's number is 3.267.



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RPS
HW/Ext

Three Decimal Places

7. True or false? The numbers below have been ordered correctly from smallest to largest.

Smallest → Largest

A. 5 ones, 5 tenths,
seventeen
hundredths and
9 thousandths

B. 5 ones, 5 tenths,
4 hundredths
and 14
thousandths

C. 4 ones, 15
tenths, 6
hundredths and
4 thousandths



VF
HW/Ext

8. Circle the number in each row which has the largest number of hundredths.

A. $30 + 4 + 0.6 + 0.08 + 0.015$

567.009

8 ones, zero tenths,
4 hundredths and
12 thousandths

B. 2 tens, zero ones, 9
tenths, 5
hundredths and 14
thousandths

$100 + 6 + 0.5 + 0.04 + 0.017$

0.076



VF
HW/Ext

9. Use the digit cards to create a number that is larger than Jorelle's but smaller than Jun's. Find 3 solutions.

$7 + 0.5 + 0.15 + 0.003$



5
6
7
0
6
8

Seven ones and
six hundred and
sixty-five thousandths



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Homework/Extension

Three Decimal Places

Developing

1. **True**
2. **A. 4.532, B. 2.444**
3. **1.42 or 1.48**

Expected

4. **False – the correct order is C, B, A.**
5. **A. 3.411, B. 1.602**
6. **Various answers, for example: 3.125, 3.152, 3.215, 3,251**

Greater Depth

7. **False – the correct order is B, C and A.**
8. **A. 34.695, B. 0.076**
9. **7.656, 7.658 and 7.660**