

Reasoning and Problem Solving Order and Compare Decimals

Developing

1a. Various possible answers, for example:
2.33, 2.42, 2.51

2a. 1.45, 1.49, 1.54, 1.59, 1.94, 1.95

3a. Anika is correct.

Both numbers have 3 ones but 3.21 has 2 tenths whereas 3.14 has only 1 tenth so 3.21 is the greater number.

Expected

4a. Various possible answers, for example:
3.42, 3.501, 4.14, 4.23

5a. 3.714, 3.741, 4.137, 4.173, 4.317, 4.371

6a. Dominic is not correct.

3220m = 3.22km. Both 3.218km and 3.22km have 3 ones and 2 tenths but 3.22km has 2 hundredths whereas 3.218km has only one hundredth.

Greater Depth

7a. Various possible answers, for example:
4.051, 4.06, 4.15

8a. 4.315, 4.351, 4.513, 4.531, 5.134, 5.143

9a. Grace is not correct

$5220\text{m} \div 1,000 = 5.22\text{km}$. 5.22km has 2 hundredths so is greater than 5.219km which only has 1.

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Developing

1b. Various possible answers for example:
3.23, 3.32, 3.41

2b. 3.68, 3.76, 3.78, 3.86, 3.87

3b. Joshua is not correct.

Both numbers have 5 ones but 5.62 has 2 hundredths whereas 5.6 has 0 hundredths so 5.6 is not the greater number.

Expected

4b. Various possible answers, for example:
2.052, 2.061, 2.07

5b. 7.659, 7.596, 7.569, 6.975

6b. Emily is correct

$328.8\text{ cm} \div 100 = 3.288\text{m}$

Greater Depth

7b. Various possible answers, for example:
2.601, 2.61, 2.7

8b. 6.738, 6.783, 6.837, 6.873

9b. Maya is correct.

$0.684 \times 10 = 6.84$. $68.2 \div 10 = 6.82$.

6.84 has 4 hundredths but 6.82 has only 2 so 6.84 is greater than 6.82.