

Reasoning and Problem Solving

Step 3: Compare 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 (Problem Solving)

Developing Work through the maze by comparing decimals to identify the largest or smallest number. Tenths and hundredths; zero is not used as a placeholder.

Expected Work through the maze by comparing decimals to identify the largest or smallest number. Ones, tenths and hundredths; zero is used as a placeholder.

Greater Depth Work through the maze by comparing decimals to identify the largest or smallest number. Tens, ones, tenths and hundredths included; zero is used as a placeholder.

Questions 2, 5 and 8 (Problem Solving)

Developing Use $>$, $<$ and $=$ to compare partitioned decimals. Tenths and hundredths; zero is not used as a placeholder.

Expected Use $>$, $<$ and $=$ to compare partitioned decimals. Ones, tenths and hundredths; zero is used as a placeholder.

Greater Depth Use $>$, $<$ and $=$ to compare partitioned decimals. Tens, ones, tenths and hundredths included; zero is used as a placeholder.

Questions 3, 6 and 9 (Reasoning)

Developing Compare 2 decimal numbers in the context of measurements and identify which child is correct. Explain why. Tenths and hundredths; zero is not used as a placeholder.

Expected Compare 2 decimal numbers in the context of measurements and identify which child is correct. Explain why. Ones, tenths and hundredths; zero is used as a placeholder.

Greater Depth Compare 2 decimal numbers in the context of measurements (simple conversions required) and identify which child is correct. Explain why. Tens, ones, tenths and hundredths included; zero is used as a placeholder.

More [Year 4 Decimals](#) resources.

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Compare Decimals

Compare Decimals

1a. Travel vertically or horizontally through the maze by moving from smaller to larger decimal numbers.

Start

0.25	0.31	0.14	0.92
0.17	0.46	0.52	0.37
0.65	0.23	0.79	0.46
0.98	0.54	0.81	0.93

Finish



PS

1b. Travel vertically or horizontally through the maze by moving from larger to smaller decimal numbers.

Start

0.19	0.37	0.91	0.82
0.76	0.65	0.53	0.76
0.32	0.58	0.45	0.95
0.14	0.21	0.36	0.51

Finish



PS

2a. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$0.41 + 0.32 \quad \square \quad 0.85$$

$$0.35 + 0.61 \quad \square \quad 0.92$$



PS

2b. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$0.78 \quad \square \quad 0.56 + 0.23$$

$$0.83 \quad \square \quad 0.25 + 0.61$$



PS

3a. Susie says:



I have the tallest plant because it is 0.16m high.

Akito says:



I have the tallest plant because it is 0.61m high.

Who is correct? Explain why.



R

3b. Stan says:



I jumped 0.98m so I jumped the furthest.

Kylie says:



I jumped 0.89m so I jumped the furthest.

Who is correct? Explain why.



R

Compare Decimals

Compare Decimals

4a. Travel vertically or horizontally through the maze by moving from smaller to larger decimal numbers.

Start

0.29	0.09	0.49	0.85
0.36	0.68	0.91	1.03
0.19	0.35	0.89	1.12
2.72	1.09	0.59	1.49

Finish



PS

4b. Travel vertically or horizontally through the maze by moving from larger to smaller decimal numbers.

Start

2.73	2.09	2.89	2.98
1.71	1.69	2.90	2.99
1.68	1.41	1.65	0.02
1.06	1.28	1.29	0.20

Finish



PS

5a. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$1.5 + 2.03 \square 1.5 + 2.3$$

$$3.2 + 3.06 \square 3.02 + 3.07$$



PS

5b. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$2.8 + 1.2 \square 2.8 + 1.02$$

$$3.05 + 3.04 \square 3.03 + 3.06$$



PS

6a. Jessica says:



I have the longest skipping rope because it is 1.4m long.

Omar says:

I have the longest skipping rope because it is 1.04m long.



Who is correct? Explain why.



R

6b. Jack says:



I have the tallest tower because it is 3.64m high.

Maya says:

I have the tallest tower because it is 3.46m high.



Who is correct? Explain why.



R

Compare Decimals

Compare Decimals

7a. Travel vertically or horizontally through the maze by moving from smaller to larger decimal numbers.

Start

12.09	13.23	24.18	24.08
11.99	13.19	24.81	24.78
16.55	15.02	25.20	26.02
22.99	17.09	25.19	26.99

Finish



PS

7b. Travel vertically or horizontally through the maze by moving from larger to smaller decimal numbers.

Start

32.97	34.01	37.01	36.99
32.79	33.98	34.06	35.89
30.09	33.99	34.62	35.98
29.98	31.99	25.34	23.66

Finish



PS

8a. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$10 + 2.4 + 0.06 \quad \square \quad 10 + 2.3 + 0.09$$

$$12 + 1.3 + 0.09 \quad \square \quad 12 + 1.1 + 0.9$$



PS

8b. Use $>$, $<$ or $=$ to compare the partitioned decimal numbers.

$$14 + 1.8 + 0.2 \quad \square \quad 14 + 1.2 + 0.09$$

$$11 + 2.8 + 0.2 \quad \square \quad 11 + 2.9 + 0.07$$



PS

9a. Anju says:



I have the longest piece of string because it is 10.01m long.

Joe says:



I have the longest piece of string because it is 1,000cm long.

Who is correct? Explain why.



R

9b. Callum says:



I have the most money because I have £12.05.

Sara says:



I have the most money because I have 1,250p.

Who is correct? Explain why.



R

Reasoning and Problem Solving Compare Decimals

Developing

1a.

0.25	0.31	0.14	0.92
0.17	0.46	0.52	0.37
0.65	0.23	0.79	0.46
0.98	0.54	0.81	0.93

2a. $<$, $>$

3a. Akito is correct because 0.61 is greater than 0.16.

Expected

4a.

0.29	0.09	0.49	0.85
0.36	0.68	0.91	1.03
0.19	0.35	0.89	1.12
2.72	1.09	0.59	1.49

5a. $<$, $>$

6a. Jessica is correct because 1.4 is greater than 1.04.

Greater Depth

7a.

12.09	13.23	24.18	24.08
11.99	13.19	24.81	24.78
16.55	15.02	25.20	26.02
22.99	17.09	25.19	26.99

8a. $>$, $<$

9a. Anju is correct because 10.01m is longer than 1,000cm (10m).

Reasoning and Problem Solving Compare Decimals

Developing

1b.

0.19	0.37	0.91	0.82
0.76	0.65	0.53	0.76
0.32	0.58	0.45	0.95
0.14	0.21	0.36	0.51

2b. $<$, $<$

3b. Stan is correct because 0.98 is greater than 0.89.

Expected

4b.

2.73	2.09	2.89	2.98
1.71	1.69	2.90	2.99
1.68	1.41	1.65	0.02
1.06	1.28	1.29	0.20

5b. $>$, $=$

6b. Jack is correct because 3.64 is greater than 3.46.

Greater Depth

7b.

32.97	34.01	37.01	36.99
32.79	33.98	34.06	35.89
30.09	33.99	34.62	35.98
29.98	31.99	25.34	23.66

8b. $>$, $>$

9b. Sara is correct because 1,250p (£12.50) is more than £12.05.