



Comparing and ordering decimals

Compare the decimals. Which decimal is greater?

2.2 and 3.1

0.45 and 0.6

Line them up vertically.

2.2

3.1

0.45

0.60

$3 > 2$, so $3.1 > 2.2$

$6 > 4$, so $0.6 > 0.45$

Compare the decimals. Which decimal is greater?

7.9 and 8.1

0.5 and 0.62

3.6 and 0.94

0.4 and 0.67

1.6 and 1.9

0.31 and 3.10

8.5 and 6.9

6.75 and 6.71

Find the greatest decimal.

2.9 and 2.75 and 2.6

0.97 and 1.09 and 1.3

4.9 and 3.87 and 4.75

Write the decimals in order from greatest to least.

0.33 3.1 0.3

24.95 23.9 24.5

7.5 6.95 7.58

Find the answer to each problem.

The Weather Bureau reported 5.18 inches of rain in March, 6.74 inches in April, and 5.23 inches in May. Which month had the least rainfall?

A postal worker walked 4.5 miles on Wednesday, 3.75 miles on Thursday, and 4.25 miles on Friday. Which day did she walk the farthest?



Comparing and ordering decimals

Compare the decimals. Which decimal is greater?

2.2 and 3.1

0.45 and 0.6

Line them up vertically.

2.2
3.1

0.45
0.60

$3 > 2$, so $3.1 > 2.2$

$6 > 4$, so $0.6 > 0.45$

Compare the decimals. Which decimal is greater?

7.9 and 8.1

0.5 and 0.62

3.6 and 0.94

0.4 and 0.67

8.1

0.62

3.6

0.67

1.6 and 1.9

0.31 and 3.10

8.5 and 6.9

6.75 and 6.71

1.9

3.10

8.5

6.75

Find the greatest decimal.

2.9 and 2.75 and 2.6

0.97 and 1.09 and 1.3

4.9 and 3.87 and 4.75

2.9

1.3

4.9

Write the decimals in order from greatest to least.

0.33 3.1 0.3

24.95 23.9 24.5

7.5 6.95 7.58

3.1, 0.33, 0.3

24.95, 24.5, 23.9

7.58, 7.5, 6.95

Find the answer to each problem.

The Weather Bureau reported 5.18 inches of rain in March, 6.74 inches in April, and 5.23 inches in May. Which month had the least rainfall?

March

$5.18 < 5.23 < 6.74$

A postal worker walked 4.5 miles on Wednesday, 3.75 miles on Thursday, and 4.25 miles on Friday. Which day did she walk the farthest?

Wednesday

$4.5 > 4.25 > 3.75$

Before making any comparisons, children should write out each of the numbers with the same number of decimal places, lining up the decimal points vertically.



Ordering sets of decimals

Write these decimals in order, from least to greatest.

0.45 0.21 2.07 1.45 3.62 2.17

0.21 0.45 1.45 2.07 2.17 3.62

Write these decimals in order, from least to greatest.

5.63 2.14 5.6 3.91 1.25 4.63

9.39 0.24 7.63 8.25 7.49 9.40

1.05 2.36 1.09 2.41 7.94 1.50

3.92 5.63 2.29 4.62 5.36 2.15

28.71 21.87 27.18 21.78 28.17 27.81

Write these measures in order, from least to greatest.

\$56.25 \$32.40 \$11.36 \$32.04 \$55.26 \$36.19

94.21 km 87.05 km 76.91 km 94.36 km 65.99 km 110.75 km

\$26.41 \$47.23 \$26.14 \$35.23 \$49.14 \$35.32

19.51 m 16.15 m 15.53 m 12.65 m 24.24 m 16.51 m

7.35 l 8.29 l 5.73 l 8.92 l 10.65 l 4.29 l



Ordering sets of decimals

Write these decimals in order, from least to greatest.

0.45 0.21 2.07 1.45 3.62 2.17

0.21 0.45 1.45 2.07 2.17 3.62

Write these decimals in order, from least to greatest.

5.63 2.14 5.6 3.91 1.25 4.63

1.25 2.14 3.91 4.63 5.6 5.63

9.39 0.24 7.63 8.25 7.49 9.40

0.24 7.49 7.63 8.25 9.39 9.40

1.05 2.36 1.09 2.41 7.94 1.50

1.05 1.09 1.50 2.36 2.41 7.94

3.92 5.63 2.29 4.62 5.36 2.15

2.15 2.29 3.92 4.62 5.36 5.63

28.71 21.87 27.18 21.78 28.17 27.81

21.78 21.87 27.18 27.81 28.17 28.71

Write these measures in order, from least to greatest.

\$56.25 \$32.40 \$11.36 \$32.04 \$55.26 \$36.19

\$11.36 \$32.04 \$32.40 \$36.19 \$55.26 \$56.25

94.21 km 87.05 km 76.91 km 94.36 km 65.99 km 110.75 km

65.99 km 76.91 km 87.05 km 94.21 km 94.36 km 110.75 km

\$26.41 \$47.23 \$26.14 \$35.23 \$49.14 \$35.32

\$26.14 \$26.41 \$35.23 \$35.32 \$47.23 \$49.14

19.51 m 16.15 m 15.53 m 12.65 m 24.24 m 16.51 m

12.65 m 15.53 m 16.15 m 16.51 m 19.51 m 24.24 m

7.35 l 8.29 l 5.73 l 8.92 l 10.65 l 4.29 l

4.29 l 5.73 l 7.35 l 8.29 l 8.92 l 10.65 l

Children should take special care when they order sets that include numbers with similar digits that have different place values. Make sure that they understand how place value defines a number: for example, 6.959 is less than 7.1.



Decimals

Write these decimals in order, from least to greatest.

0.35 0.4 0.25 0.15 0.2 0.15 0.2 0.25 0.35 0.4

Write each row of decimals in order, from least to greatest.

0.41 0.48 0.42 0.45 0.40

1.45 1.75 1.35 1.80 1.40

4.23 4.73 4.83 4.13 4.93

6.28 6.48 6.98 6.08 6.18

4.34 3.34 8.34 2.34 7.34

2.16 3.65 4.64 5.38 1.37

5.31 2.85 4.97 6.35 1.44

8.32 6.17 9.32 7.43 2.38

5.98 4.06 3.07 2.38 6.27

Write each row of decimals in order, from least to greatest.

2.67 5.28 1.73 4.92 2.56

7.27 4.94 2.91 4.38 5.68

8.27 4.56 8.42 9.28 8.44

1.37 1.94 2.36 3.16 4.21

4.36 7.27 5.25 6.28 5.29

3.34 2.63 4.13 3.21 4.28

7.35 6.48 7.21 6.22 4.46

5.45 4.97 5.21 4.89 5.03



Decimals

Write these decimals in order, from least to greatest.

0.35 0.4 0.25 0.15 0.2 0.15 0.2 0.25 0.35 0.4

Write each row of decimals in order, from least to greatest.

0.41 0.48 0.42 0.45 0.40 0.40 0.41 0.42 0.45 0.48

1.45 1.75 1.35 1.80 1.40 1.35 1.40 1.45 1.75 1.80

4.23 4.73 4.83 4.13 4.93 4.13 4.23 4.73 4.83 4.93

6.28 6.48 6.98 6.08 6.18 6.08 6.18 6.28 6.48 6.98

4.34 3.34 8.34 2.34 7.34 2.34 3.34 4.34 7.34 8.34

2.16 3.65 4.64 5.38 1.37 1.37 2.16 3.65 4.64 5.38

5.31 2.85 4.97 6.35 1.44 1.44 2.85 4.97 5.31 6.35

8.32 6.17 9.32 7.43 2.38 2.38 6.17 7.43 8.32 9.32

5.98 4.06 3.07 2.38 6.27 2.38 3.07 4.06 5.98 6.27

Write each row of decimals in order, from least to greatest.

2.67 5.28 1.73 4.92 2.56 1.73 2.56 2.67 4.92 5.28

7.27 4.94 2.91 4.38 5.68 2.91 4.38 4.94 5.68 7.27

8.27 4.56 8.42 9.28 8.44 4.56 8.27 8.42 8.44 9.28

1.37 1.94 2.36 3.16 4.21 1.37 1.94 2.36 3.16 4.21

4.36 7.27 5.25 6.28 5.29 4.36 5.25 5.29 6.28 7.27

3.34 2.63 4.13 3.21 4.28 2.63 3.21 3.34 4.13 4.28

7.35 6.48 7.21 6.22 4.46 4.46 6.22 6.48 7.21 7.35

5.45 4.97 5.21 4.89 5.03 4.89 4.97 5.03 5.21 5.45

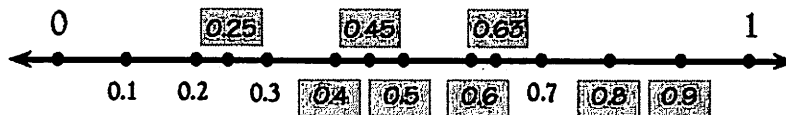
Children should understand that place value with decimals is just as important as it is with whole numbers. Make sure they compare the numbers in order—the whole number first, then the first decimal place, and then the second decimal place.



Showing decimals

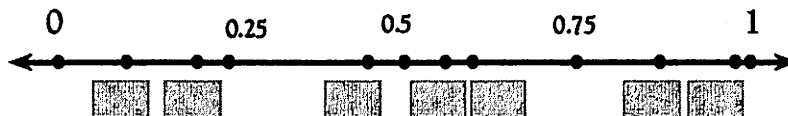
Write the decimals on the number line.

0.4, 0.5, 0.6, 0.8, 0.9, 0.25, 0.45, 0.63



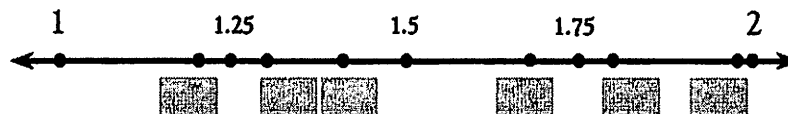
Write the decimals on the number line.

0.56, 0.2, 0.87, 0.45, 0.98, 0.6, 0.1



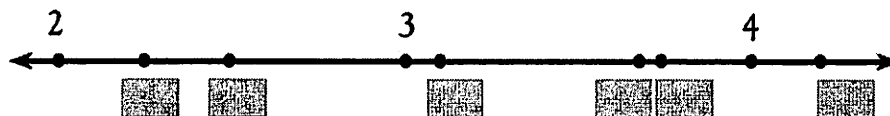
Write the decimals on the number line.

1.41, 1.8, 1.3, 1.98, 1.68, 1.2



Write these decimals on the number line.

2.5, 3.75, 2.25, 3.1, 3.68, 4.2

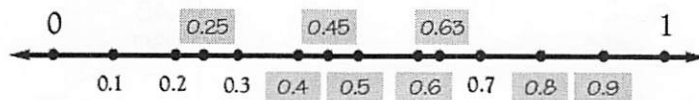




Showing decimals

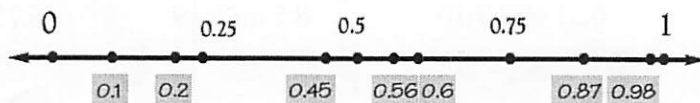
Write the decimals on the number line.

0.4, 0.5, 0.6, 0.8, 0.9, 0.25, 0.45, 0.63



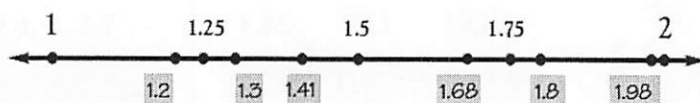
Write the decimals on the number line.

0.56, 0.2, 0.87, 0.45, 0.98, 0.6, 0.1



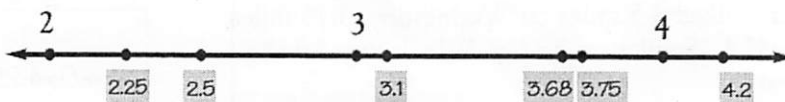
Write the decimals on the number line.

1.41, 1.8, 1.3, 1.98, 1.68, 1.2



Write these decimals on the number line.

2.5, 3.75, 2.25, 3.1, 3.68, 4.2



If children are confused about where to place the decimals to hundredths, have them first fill in all of the tenths on the number line. Then ask which of those tenths the decimals to hundredths fall between.