W/E

1. Order each set of numbers from least to greatest.
   a) 5.2, 2.5, 2.52, 2.02, 2.057
   b) 3.146, 3.056, 3.106, 3.506, 3.14
   c) 0.153, 1.24, 0.532, 1.654, 1.053
   d) 0.004, 0.04, 0.402, 0.0042, 0.4

2. Draw a number line from 0 to 2. Use estimation to locate each decimal along the line. Explain how you did this.
   a) 1.24   b) 1.43   c) 1.765
   d) 0.95   e) 0.593   f) 0.18

3. The chart shows the values of foreign currencies in dollars.

Currency	Dollar Value ($)
German mark	0.773
Japanese yen	0.012
Swiss franc	0.881
Chinese renminbi	0.229
Kenyan shilling	0.019
Iraqi dinar	4.244

   a) Which currency has the greatest value? the least value?
   b) Write the value of each currency to the nearest penny.
   c) Order the currencies from the one with the least value to the one with the greatest value.

4. The next day the values changed for the different currencies shown in Problem 3. Use base ten blocks to find the new values.

Currency	Dollar Value Change ($)
German mark	+0.008
Japanese yen	−0.001
Swiss franc	−0.02
Chinese renminbi	+0.02
Kenyan shilling	+0.001
Iraqi dinar	+0.06

5. Compare each pair of numbers. Which is greater?
   a) 1.2 or 2.1   b) 1.02 or 1.20
   c) 3.261 or 3.216   d) 15.435 or 15.354
   e) 17.080 or 17.008   f) 19.101 or 19.110

HOME LINK

Ask family members what type of decimals they find easiest to make comparisons with.

6. Write a decimal between each of these decimals.
   a) 1.7 and 1.9   b) 2.4 and 2.8
   c) 3.30 and 3.33   d) 10.05 and 10.07
   e) 13.21 and 13.25   f) 20.15 and 20.20

7. Write a decimal between each of these decimals.

W/E

   a) 1.8 and 1.81   b) 2.31 and 2.32
   c) 1.01 and 1.02   d) 2.05 and 2.06
   e) 1.38 and 1.39   f) 10.007 and 10.008

8. Follow this calculator keying sequence and explain what it does.

$$\boxed{C}\ 1.005\ \boxed{+}\ 1.006\ \boxed{=}\ \boxed{\div}\ 2\ \boxed{=}$$

In Your Journal

When a number is exactly halfway between two other numbers, you often round up to the higher number. Give an example of a situation where you might want to round a number down instead.

3.2 Decimal Comparisons

Compare each pair of numbers. Which is greater?

1. 3.4 or 4.3
2. 2.1 or 1.2
3. 7.81 or 7.18

4. 1.08 or 1.80
5. 16.05 or 16.5
6. 11.51 or 11.15

7. 4.230 or 4.203
8. 3.234 or 3.3
9. 4.3400 or 4.35

10. 1.0017 or 1.0170
11. 3.0108 or 3.0018
12. 1.8050 or 1.0580

Order each set of numbers from least to greatest.

13. 6.3, 3.6, 3.63, 3.03, 3.068

14. 5.257, 5.167, 5.217, 5.617, 5.25

15. 0.152, 0.512, 0.521, 0.125

16. 0.050, 0.015, 0.505, 0.550, 0.005, 0.051

17. 0.007, 0.07, 0.702, 0.0017, 0.0072, 0.0720

Write a decimal between each of these decimals.

18. 2.6 and 2.8
19. 1.8 and 1.11
20. 2.05 and 2.07

21. 5.1 and 5.5
22. 6.3 and 6.8
23. 7.51 and 7.53

24. 4.33 and 4.35
25. 9.812 and 9.818
26. 6.12 and 6.16

27. 10.135 and 10.140
28. 7.011 and 7.012
29. 8.001 and 8.002

Write a decimal between each of these decimals.

30. 1.7 and 1.71
31. 2.9 and 2.91
32. 3.0 and 3.1

33. 5.01 and 5.02
34. 4.02 and 4.03
35. 6.10 and 6.11

36. 3.003 and 3.004
37. 4.006 and 4.007
38. 7.004 and 7.005

INTERACTIONS 7   **Practice Master   C17**