Rounding to the Nearest Whole Number

1. Which of the decimals
   0.1, 0.2, 0.3, ..., 0.8, 0.9
   are closer to 0 than to 1?

   Which ones are closer to 1?

0   1

0.0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.0   1.1   1.2
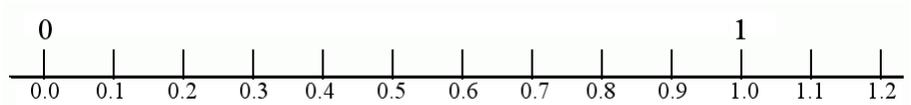
   Which one is as close to 0 as it is to 1?

2. Imagine nine little lines
   between each of the tenths
   on the number line.

0   1

0.0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.0   1.1   1.2
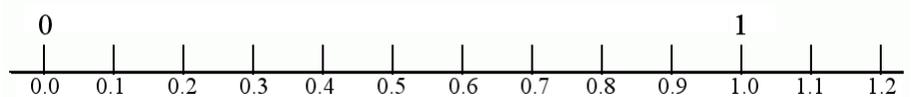
   What numbers would those lines represent?

   Which of those are closer to 0 than to 1?   Which are closer to 1?

Rounding to the nearest whole number

1) Look at the first decimal digit - which is right *after*
   the whole number part.

2) If it is 5 or more, you need to round UP to the next whole number.
   Cut off the decimal digits; change the whole number part by 1.

3) If it is 4 or less, you round DOWN to the previous whole number.
   Cut off the decimal digits; the whole number part won't change.

Look at the digit *after*
the whole number:

$6.48 \approx 6$

$4 \rightarrow$ round down.

$4.7 \approx 5$

$7 \rightarrow$ round up.

$2.09 \approx 2$

$0 \rightarrow$ round down.

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3. Round the following decimals to the nearest whole number.

   a. $0.6 \approx$ **b.** $0.5 \approx$ **c.** $1.7 \approx$ **d.** $0.4 \approx$ **e.** $10.4 \approx$

   f. $5.3 \approx$ **g.** $2.6 \approx$ **h.** $3.5 \approx$ **i.** $7.8 \approx$ **j.** $4.2 \approx$

   k. $0.18 \approx$ **l.** $0.51 \approx$ **m.** $0.78 \approx$ **n.** $2.43 \approx$ **o.** $7.24 \approx$

4. Round the following decimals to the nearest whole number.

   a. $4.35 \approx$ **b.** $0.65 \approx$ **c.** $14.53 \approx$ **d.** $11.82 \approx$ **e.** $1.02 \approx$

   f. $2.47 \approx$ **g.** $2.62 \approx$ **h.** $7.7 \approx$ **i.** $8.32 \approx$ **j.** $4.92 \approx$

   k. $6.08 \approx$ **l.** $12.81 \approx$ **m.** $4.3 \approx$ **n.** $0.5 \approx$ **o.** $0.55 \approx$

Math Mammoth Decimals 1 (Blue Series)