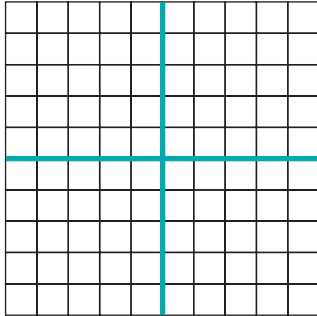


# Estimating Decimals Using Familiar Fractions

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write a decimal for each fraction.



$$1 \quad \frac{1}{2} = \underline{0.}$$

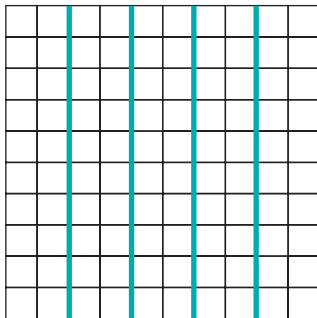
$$2 \quad \frac{2}{5} = \underline{0.}$$

$$3 \quad \frac{1}{10} = \underline{0.}$$

$$4 \quad \frac{1}{4} = \underline{0.}$$

$$5 \quad \frac{1}{8} = \underline{0.}$$

$$6 \quad \frac{1}{5} = \underline{0.}$$



$$7 \quad \frac{3}{4} = \underline{0.}$$

$$8 \quad \frac{3}{5} = \underline{0.}$$

$$9 \quad \frac{3}{10} = \underline{0.}$$

$$10 \quad \frac{4}{5} = \underline{0.}$$

Circle the number that is closer to each decimal.

11      4.6  
4      or      5

12      12.9  
12      or      13

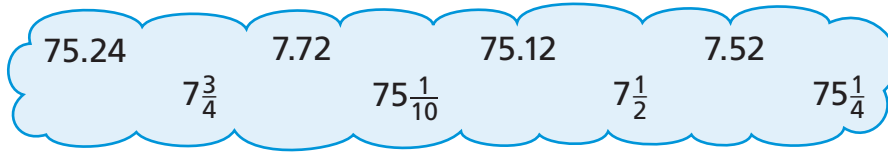
13      6.52  
 $6\frac{1}{2}$       or       $6\frac{1}{4}$

14      7.76  
 $7\frac{3}{5}$       or       $7\frac{3}{4}$

15      9.26  
 $9\frac{1}{4}$       or       $9\frac{1}{10}$

16      18.22  
 $18\frac{1}{4}$       or       $18\frac{1}{5}$

Find pairs of numbers that have approximately the same value.



17 _____	18 _____	19 _____	20 _____
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For each decimal, write a mixed number that has approximately the same value.

21 7.48 _____	22 4.61 _____	23 6.124 _____
24 26.23 _____	25 30.52 _____	26 13.801 _____



27 Jessica needs 2 pounds of ground meat to make chili. She has one package with 2.42 pounds of ground meat and another package with 2.08 pounds of ground meat. Which amount is closer to 2 pounds? Explain how you know.

\_\_\_\_\_

\_\_\_\_\_

**Challenge** Write  $>$ ,  $<$ , or  $=$  to complete the number sentences.

28  $75.24 \bigcirc 75\frac{1}{4}$

29  $125.125 \bigcirc 125\frac{1}{8}$

30  $67\frac{3}{5} \bigcirc 67.621$

31  $43\frac{3}{4} \bigcirc 43.745$