

# Connecting Decimals to Fractions

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

Fill in the fraction notation (above the picture) and decimal notation (below the picture) to match the blocks.

### Example

$$2 + \frac{4}{10} + \frac{5}{100} = 2\frac{45}{100}$$

1s	10ths	100ths

2 . 4 5

1

$$\square + \frac{\square}{10} + \frac{3}{100} = \frac{\square}{100}$$

1s	10ths	100ths

$\square$  . 8  $\square$

2

$$\square + \frac{\square}{10} + \frac{\square}{100} = \frac{\square}{100}$$

1s	10ths	100ths

$\square$  .  $\square$   $\square$

3

$$\square + \square + \square = \frac{\square}{100}$$

1s	10ths	100ths

$\square$  .  $\square$   $\square$

4

$$\square + \square + \square = \square$$

1s	10ths	100ths

$\square$  .  $\square$   $\square$

5

$$\square + \square + \square = \square$$

1s	10ths	100ths

$\square$  .  $\square$   $\square$

Write the mixed number that matches the decimal.

Example

100s	10s	1s	10ths	100ths
4	2	1	3	6

$$421\frac{36}{100}$$

6

100s	10s	1s	10ths	100ths
	2	9	9	

\_\_\_\_\_

7

100s	10s	1s	10ths	100ths
3	6	0	1	0

\_\_\_\_\_

8

100s	10s	1s	10ths	100ths
	8	9	0	3

\_\_\_\_\_

Write the decimal that matches the mixed number.

Example

100s	10s	1s	10ths	100ths
	6	2	7	2

$$62\frac{72}{100}$$

9

100s	10s	1s	10ths	100ths

$$103\frac{8}{10}$$

10

100s	10s	1s	10ths	100ths

$$420\frac{5}{100}$$

11

100s	10s	1s	10ths	100ths

$$17\frac{70}{100}$$



**12 Challenge** Which decimal has the same value as 72.9:

72.09 or 72.90? \_\_\_\_\_

Tell or show how you know.