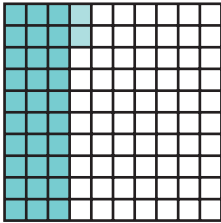


# Representing Decimals Using Base-Ten Blocks

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

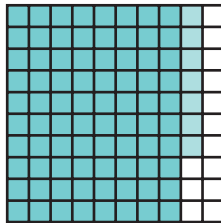
Use the clues to complete the tables.

1



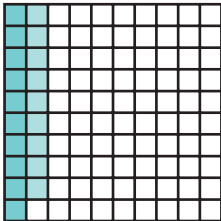
	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal	0.3	0.02		0.68
Fraction	$\frac{3}{10}$	$\frac{2}{100}$	$\frac{32}{100}$	

2



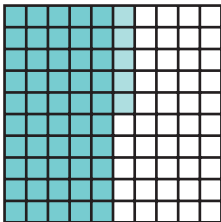
	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal	0.8			
Fraction				

3



	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal				
Fraction				

4



	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal				
Fraction				

Fill in the missing numbers.

5  $0.12 + 0.01 = 0.13$      $+ 0.02 = \square$      $+ 0.04 = \square$

6  $0.28 - 0.02 = \square$      $- 0.01 = \square$      $- 0.03 = \square$

7  $1.73 + 0.04 = \square$      $- 0.05 = \square$      $+ 0.01 = \square$

Use the clues to complete the table.

8	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal				
Fraction	$\frac{9}{10}$	$\frac{4}{100}$		

9	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal	0.6	0.07		
Fraction				

10	Dark Shading	Light Shading	Total Shaded	Total Unshaded
Decimal	0.4		0.46	
Fraction				

Compare the decimals. Write  $<$ ,  $>$ , or  $=$ .

- 11 0.6 ○ 0.62  
 0.79 ○ 0.7  
 0.43 ○ 0.4  
 0.5 ○ 0.50

- 12 0.2 ○ 0.19  
 0.36 ○ 0.2  
 0.47 ○ 0.8  
 0.06 ○ 0.1

- 13 0.11 ○ 0.1  
 0.01 ○ 0.1  
 0.01 ○ 0.10  
 0.10 ○ 0.1

14 **Challenge** Write the numbers from problem 12 in order from smallest to largest.

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_