

0.1 A1	0.30 A2	0.25 A3
0.75 A4	0.08 A5	0.2 A6
0.3 A7	0.9 A8	1.3 A9
5.4 A10	1.0 A11	0.5 A12
2.5 A13	0.8 A14	0.01 A15

$$\frac{54}{10}$$

B1

$$\frac{30}{100}$$

B2

B3

$$\frac{8}{100}$$

B4

B5

$$\frac{1}{10}$$

B6

$$\frac{1}{100}$$

B7

$$\frac{16}{16}$$

B8

$$\frac{1}{2}$$

B9

$$\frac{3}{4}$$

B10

$$\frac{1}{5}$$

B11

$$\frac{3}{10}$$

B12

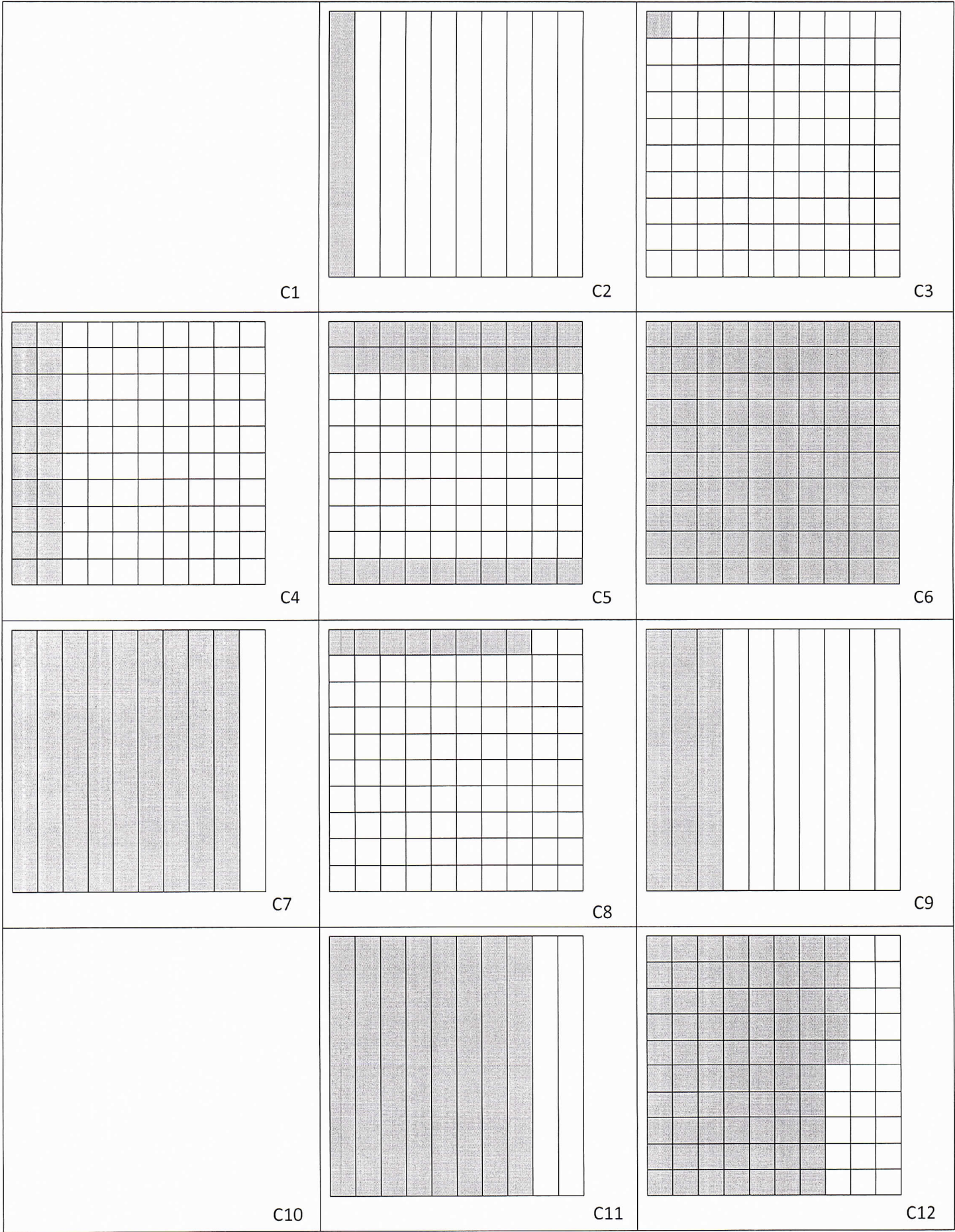
$$\frac{13}{10}$$

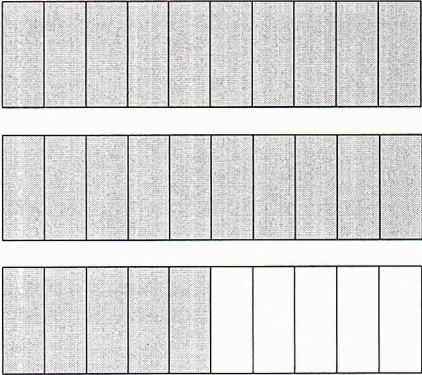
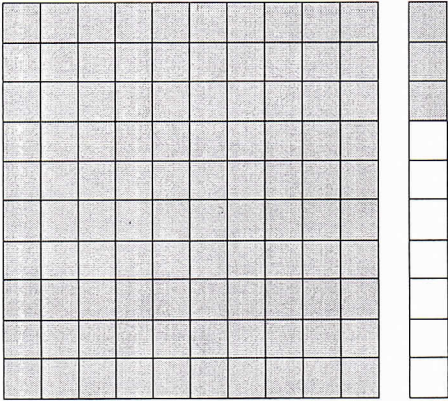
B13

$$\frac{1}{4}$$

B14

B15



<p>C13</p>	<p>DO NOT USE</p>	<p>DO NOT USE</p>
 <p>C14</p>	<p>DO NOT USE</p>	<p>DO NOT USE</p>
 <p>C15</p>	<p>DO NOT USE</p>	<p>DO NOT USE</p>
<p>DO NOT USE</p>	<p>DO NOT USE</p>	<p>DO NOT USE</p>

$$5 \div 2$$

F1

$$20 \times 0.01$$

F2

$$\frac{1}{4} \text{ of } 4$$

F3

$$25 \div 100$$

F4

$$0.3 + 0.3 + 0.3$$

F5

F6

$$0.25 \times 3$$

F7

$$\begin{aligned} & \$1.00 - \$0.70 \\ & \text{(one dollar minus 70 cents)} \end{aligned}$$

F8

$$10 \div 1000$$

F9

$$0.6 + 0.7$$

F10

F11

F12

$$0.1 \times 5$$

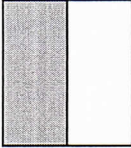
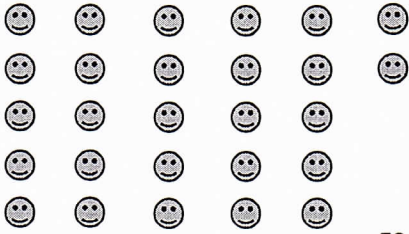
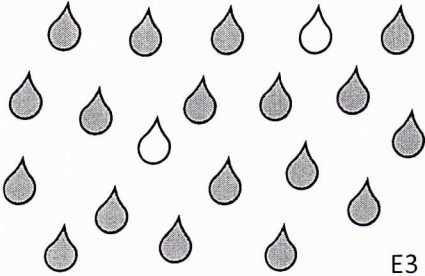

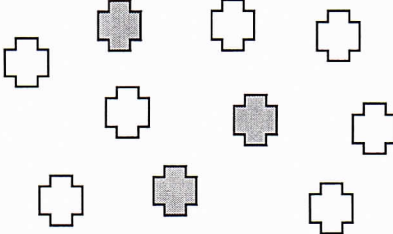


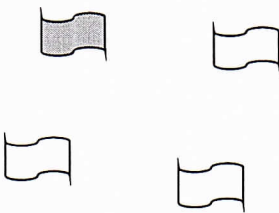
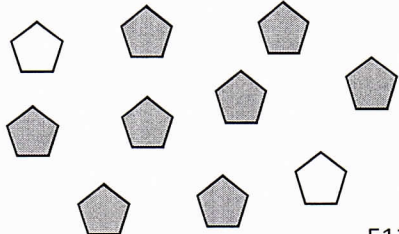


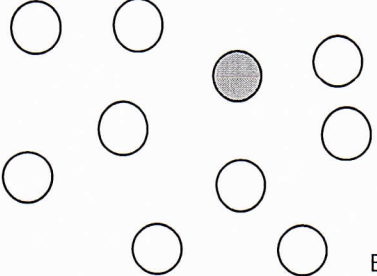
F13

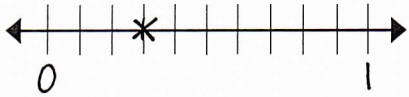
$$80 \div 100$$

F14

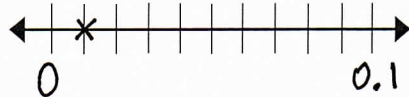
$$54 \div 10$$

F15

 <p style="text-align: right;">E1</p>	<p>If 😊😊😊😊😊 is one whole,</p>  <p style="text-align: right;">E2</p>	<p>The fraction of drops that are dark</p>  <p style="text-align: right;">E3</p>
 <p style="text-align: right;">E4</p>	<p>The fraction of crosses that are dark</p>  <p style="text-align: right;">E5</p>	 <p style="text-align: right;">E6</p>
<p style="text-align: right;">E7</p>	<p>If a square is one whole, this shows</p>  <p style="text-align: right;">E8</p>	<p style="text-align: right;">E9</p>
<p>The fraction of flags that are dark</p>  <p style="text-align: right;">E10</p>	<p style="text-align: right;">E11</p>	<p>The fraction of pentagons that are dark</p>  <p style="text-align: right;">E12</p>
 <p style="text-align: right;">E13</p>	 <p style="text-align: right;">E14</p>	<p>The fraction of circles that are dark</p>  <p style="text-align: right;">E15</p>



D1



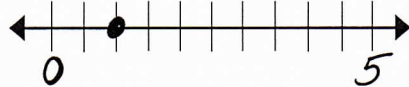
D2



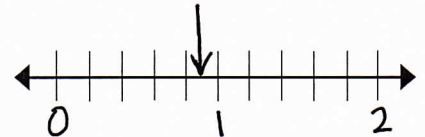
D3



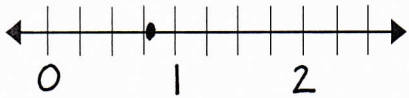
D4



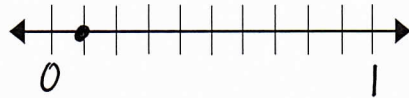
D5



D6



D7



D8



D9



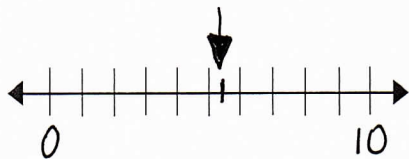
D10



D11



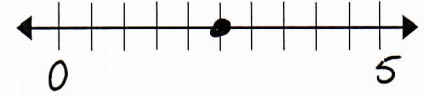
D12



D13



D14



D15

Part 1

Starting with 5	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	

What happened? (If there was a pattern, what was it?)

What do you think would happen if you multiplied your number by 1,000,000?

What do you think would happen if you multiplied your number by 0.00001?

Part 2

Starting with 5	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

What happened? (If there was a pattern, what was it?)

What do you think would happen if you divided your number by 1,000,000?

What do you think would happen if you divided your number by 0.00001?

Part 3 - Predict the products and quotients (NO calculators)

Starting with 7	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

How did you figure out your answers?

Part 4 - Use calculators to check your predictions

Starting with 7	
# × 1000 =	
# × 100 =	
# × 10 =	
# × 1 =	
# × 0.1 =	
# × 0.01 =	
# × 0.001 =	
# ÷ 1000 =	
# ÷ 100 =	
# ÷ 10 =	
# ÷ 1 =	
# ÷ 0.1 =	
# ÷ 0.01 =	
# ÷ 0.001 =	

Were your predictions correct? Why?

Name _____

Solve each problem mentally and then check your answer with a calculator. Check your work with your tablemates – what was easy (★), what was surprising (!), what was confusing (?), what caused disagreement (♡).

Problem	Predict (mental)	Check (calculator)	★ ! ? ♡ I think...
$2000 \div 10 =$			
$50 \div 10 =$			
$7000 \div 10 =$			
$4 \div 10 =$			
$3 \div 100 =$			
$1 \div 1000 =$			
$9 \div 0.1 =$			
$7 \div 0.01 =$			
$0.8 \div 10$			
$0.02 \div 100$			

What did you do to help yourself solve these problems mentally? _____

Solve each problem mentally and then check your answer with a calculator. Check your work with your tablemates – what was easy (★), what was surprising (!), what was confusing (?), what caused disagreement (♡).

Problem	Predict (mental)	Check (calculator)	★ ! ? ♡ I think...
8×10			
5×0.1			
$20 \div 10$			
$20 \div 1000$			
$20 \div 0.1$			
20×0.1			
$20 \div 0.01$			
$25 \div 10$			
$25 \div 100$			
$25 \div 0.01$			
25×0.01			

What do you know about decimals? What questions remain about decimals? _____
