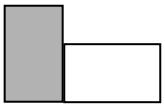
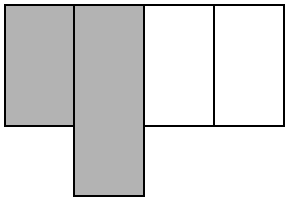
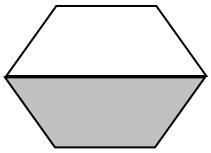
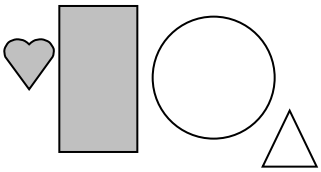
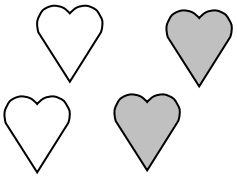
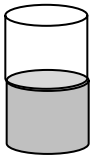
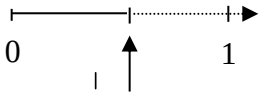
Grade 6 Diagnostic

1. In each box, circle the pictures that show $\frac{1}{2}$.

a)	b) 	c)
d) 	e)	f)
g) 	h) 	i) 
j) 	k)	l) 

2. In each box, circle the pictures that show $\frac{2}{3}$ shaded.

<table>
<tr>
<td>a) </td>
<td>b) </td>
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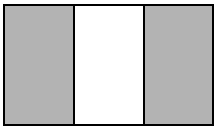
<td>c) </td>
<td>d)  </td>
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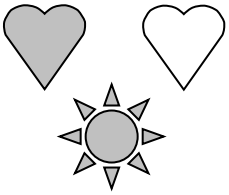
<td>e)  </td>
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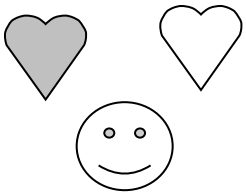
<td>g)  </td>
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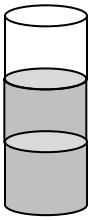
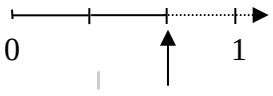
<td>i)  </td>
<td>j) 
</td>
</tr>
</table>

3. Draw a picture to show each.

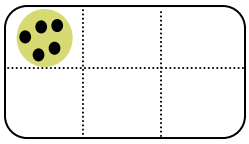
Fraction	Picture
a) $\frac{1}{3}$	
b) $\frac{3}{4}$	
c) $\frac{2}{5}$	
d) $\frac{4}{4}$	
e) $\frac{3}{2}$	
f) $\frac{8}{3}$	

4. The grey shows the whole.

   In column three, circle the fraction of the whole the black shape represents.

Whole	Fraction Picture	Fraction Symbol
a)		$\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{1}$ $\frac{4}{1}$
b)		$\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{1}$ $\frac{3}{1}$
c)		$\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{2}{1}$ $\frac{4}{1}$
d)		$\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{1}$ $\frac{3}{2}$
e)		$\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{1}$ $\frac{3}{1}$
f)		$\frac{1}{3}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{1}$ $\frac{3}{2}$

5. Draw pictures of cookies in boxes and loose cookies to show each of these. Each box holds 6 cookies.



a) $1\frac{1}{2}$ boxes of cookies.

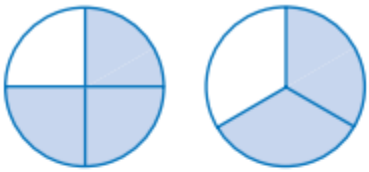
b) $2\frac{1}{6}$ boxes of cookies.

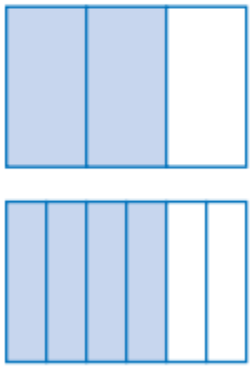
c) $\frac{11}{6}$ boxes of cookies.

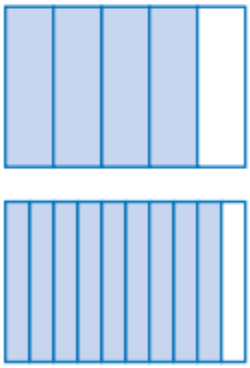
d) $\frac{5}{2}$ boxes of cookies.

6. Circle the greater shaded amount. If the fractions are equal, circle both.

a)

b) 

c) 

d) 

7. Circle the greater fraction. Tell why it is greater.

a. $\frac{4}{5}$ $\frac{2}{5}$ because

b. $1\frac{2}{3}$ $\frac{4}{3}$ because

c. $\frac{7}{8}$ $1\frac{2}{8}$ because

8. Order the following fractions from least to greatest.

$\frac{6}{4}, \frac{2}{4}, \frac{4}{4}, 3\frac{3}{4}, 1\frac{1}{4}$

9. Circle the fractions below that are equivalent (equal) to $\frac{4}{6}$.

a) $\frac{2}{3}$ b) $\frac{3}{5}$ c) $\frac{5}{7}$ d) $\frac{7}{9}$ e) $\frac{8}{12}$

10. Complete the statement: The best way to create an equivalent fraction to $\frac{3}{5}$ is to…

11. Draw a picture to show that $\frac{1}{4}$ is equivalent to $\frac{3}{12}$.