

Number Sense: Fractions – AP Book 3.2: Unit 12

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- 4
one fourth
 - 2
one half
 - 4
one fourth
 - 2
one half
 - 4
one fourth
- 2
one half
 - 4
one fourth
 - 3
one third
 - 6
one sixth
 - 6
one sixth
 - 4
one fourth

BONUS

- 8
one eighth
- No. Each part needs to be of equal size.

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- 4
one fourth, $\frac{1}{4}$
 - 6
one sixth, $\frac{1}{6}$
 - 5
one fifth, $\frac{1}{5}$
 - 8
one eighth, $\frac{1}{8}$
 - 12
one twelfth, $\frac{1}{12}$
- $\frac{1}{6}$

- $\frac{1}{2}$
 - $\frac{1}{5}$
 - $\frac{1}{3}$
 - $\frac{1}{8}$
- Teacher to check that one part has been shaded.
 - Circle $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{5}$, $\frac{1}{6}$
 - The number on top is greater than 1.
 - Circle the first, second, and fourth pictures.
 - In the first picture the parts are not equal size. The second picture has five equal parts instead of four. The fourth picture has three equal parts instead of four.

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- 5
8
 $\frac{5}{8}$
 - 5
6
 $\frac{5}{6}$
 - 3
4
 $\frac{3}{4}$
 - $\frac{1}{2}$
 - $\frac{5}{6}$
 - $\frac{4}{9}$
 - $\frac{9}{16}$
 - $\frac{4}{4}$
 - Teacher to check.
- $\frac{2}{5}$
 - $\frac{3}{4}$
 - $\frac{3}{8}$
 - $\frac{5}{6}$
 - $\frac{3}{5}$
 - Circle the second and third pictures.
 - Circle the third picture.
 - In the first picture the parts are not of equal size. In the second picture only one part is shaded. In the fourth picture two of four parts are shaded.
 - 3
 - 5
 - 1
 - 2
 - 8
 - 4
 - 5
 - 6
 - 5
 - There were 5 equal pieces in the whole pie.
 - 2
 - You have 2 equal pieces of pie left.
 - 16
 - 11
 - 16
 - 11
 - 24
 - 17
 - 24
 - 17

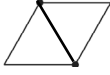
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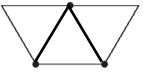
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- hexagon
 - triangle

c) trapezoid

d) rhombus

- 

2
 - 

3
 - 

6

- $\frac{1}{3}$
 - $\frac{1}{6}$
- $\frac{1}{2}$
 - $\frac{1}{3}$
- $\frac{2}{3}$
 - $\frac{5}{6}$
 - $\frac{2}{3}$
 - $\frac{2}{6}$
- $\frac{1}{12}$
 - $\frac{1}{4}$
 - $\frac{3}{6}$
 - $\frac{2}{6}$

BONUS

- $\frac{2}{12}$
- $\frac{5}{12}$

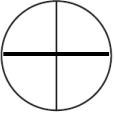
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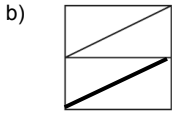
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- Teacher to check.
- yes for all parts
 - no for all parts
- Teacher to check.
- yes for all parts

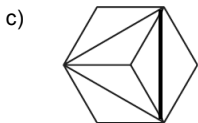
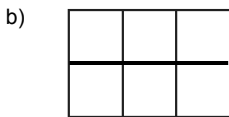
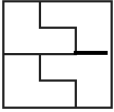
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(continued)

5. a)  b) no for all parts



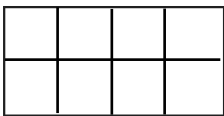
BONUS



7. No
The parts are not of equal size.

BONUS

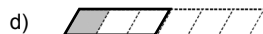
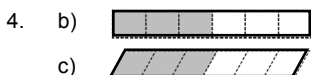
Sample answers:



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- Teacher to check.
- Teacher to check.
- Teacher to check.



BONUS



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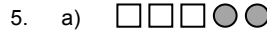
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- $\frac{2}{5}$
 - $\frac{1}{5}$
 - $\frac{2}{5}$
 - $\frac{3}{5}$
- squares
 - triangles or not shaded
 - circles
 - shaded
- 8
 - $\frac{5}{8}$
 - $\frac{3}{8}$
- Sample answers:
 - $\frac{1}{5}$
triangles

- b) $\frac{2}{5}$
circles

- c) $\frac{2}{5}$
squares

- d) $\frac{3}{5}$
shaded



6. a) $\frac{4}{6}$

- b) $\frac{2}{6}$

- c) $\frac{10}{10}$

- d) $\frac{8}{10}$

- e) $\frac{2}{10}$

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- Teacher to check.
- Circle the following:
 - $\frac{3}{4}$
 - $\frac{5}{8}$
 - $\frac{2}{3}$
- Teacher to check shading.
Circle the following:
 - $\frac{3}{4}$
 - $\frac{7}{8}$
 - $\frac{5}{6}$
- Teacher to check shading.
Circle the following:
 - $\frac{5}{6}$
 - $\frac{3}{7}$
 - $\frac{0}{4}$

5. b) $\frac{3}{4}$
>

- c) $\frac{5}{8}$
>

- d) $\frac{5}{6}$
<

6. The two strips are different sizes. You cannot compare fractions if the wholes are not the same size.

7. Circle the following:

- a) $\frac{2}{3}$

- b) $\frac{3}{4}$

8. Teacher to check shading.
Circle the following:

- a) $\frac{1}{4}$

- b) $\frac{4}{6}$

9. a) $\left(\frac{1}{4}\right) > \frac{1}{6}$

- b) $\frac{2}{3} < \left(\frac{7}{8}\right)$

10. Teacher to check shading.
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11. No. Half of Mary's larger pizza has greater area than three quarters of John's smaller pizza.

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- $\frac{3}{4}, \frac{4}{4}$
 - $\frac{3}{5}, \frac{4}{5}, \frac{5}{5}$
 - $\frac{2}{3}, \frac{3}{3}$
 - $\frac{2}{2}$
- $\frac{1}{3}$
 $\frac{1}{3}, \frac{2}{3}, \frac{3}{3}$

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(continued)

c) $\frac{1}{5}$
 $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}$

d) $\frac{1}{2}$
 $\frac{1}{2}, \frac{2}{2}$

3. a) $\frac{1}{4}$
 $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$

b) $\frac{1}{4}$
 $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$

c) $\frac{1}{2}$
 $\frac{1}{2}, \frac{2}{2}$

d) $\frac{1}{2}$
 $\frac{1}{2}, \frac{2}{2}$

4. Teacher to check circling.

- a) 3
- b) 4
- c) 2
- d) 3

5.
 - a) 2
 - b) 3
 - c) 2
 - d) 5

6.
 - a) 6
 - b) 7

BONUS

$$15\frac{1}{2}$$