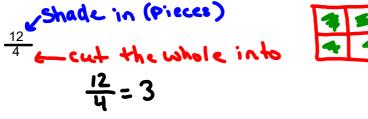
Math Review Unit 5 Warm Up

* Remember to write down the question before you answer it.

Represent the following fractions with a diagram.



1 - 1



Worksheet

Reducing Fractions (A)

Instructions: Reduce each fraction to its lowest terms.

$$\frac{2}{4}$$
 $=$ $\frac{1}{2}$

$$\frac{18}{20} \stackrel{?}{=} \frac{1}{10} \frac{9}{36} \stackrel{?}{=} \frac{4}{9} \stackrel{?}{=} \frac{1}{9} \frac{1}{36} \stackrel{?}{=} \frac{2}{3} \frac{1}{10} \stackrel{?}{=} \frac{1}{5}$$

$$\frac{6}{9} = \frac{2}{3}$$

$$\frac{2}{10} = \frac{1}{5}$$

$$\frac{3}{30} \stackrel{?3}{=} \frac{1}{10} \quad \frac{44}{48} \stackrel{?4}{=} \frac{11}{12} \quad \frac{5}{15} \stackrel{?5}{=} \frac{1}{3} \quad \frac{10}{35} \stackrel{?5}{=} \frac{2}{7}$$

$$\frac{5}{15} = \frac{1}{3}$$

$$\frac{10}{45} = \frac{2}{5}$$

$$\frac{6}{14} = \frac{3}{7}$$

$$\frac{10}{45} \stackrel{+5}{=} \frac{2}{9} \qquad \frac{6}{14} \stackrel{+7}{=} \frac{3}{7} \qquad \frac{28}{32} \stackrel{+}{=} \frac{7}{8} \qquad \frac{20}{24} \stackrel{+}{=} \frac{5}{6}$$

$$\frac{5}{15} \stackrel{\cancel{+}5}{\cancel{-}5} \frac{\cancel{-}1}{\cancel{-}3} \qquad \frac{4}{\cancel{-}4} \stackrel{\cancel{+}4}{\cancel{-}4} \frac{\cancel{-}1}{\cancel{-}8} \qquad \frac{30}{\cancel{-}5} \stackrel{\cancel{-}5}{\cancel{-}5} \stackrel{\cancel{-}6}{\cancel{-}3} = \frac{\cancel{-}3}{\cancel{-}3} =$$

$$\frac{4}{32} = \frac{1}{8}$$

$$\frac{3}{6} = \frac{1}{3}$$

$$\frac{14}{24} \stackrel{?}{=} \frac{1}{12} \frac{18}{20} \stackrel{?}{=} \frac{9}{10} \frac{14}{18} \stackrel{?}{=} \frac{7}{9} \frac{5}{35} \stackrel{?}{=} \frac{1}{7}$$

$$\frac{4}{40} \stackrel{:4}{=} \frac{1}{10} \qquad \frac{35}{50} \stackrel{:5}{=} \frac{1}{10} \qquad \frac{2}{18} \stackrel{?}{=} \frac{1}{9} \qquad \frac{2}{4} \stackrel{?}{=} \frac{1}{2}$$

$$\frac{2}{18} = \frac{1}{9}$$

$$\frac{2}{4} = \frac{1}{2}$$

$$\frac{2}{6} = \frac{1}{3}$$

$$\frac{28}{40} = \frac{7}{10}$$

$$\frac{2}{6} = \frac{1}{3} = \frac{2}{14} = \frac{1}{3} = \frac{28}{40} = \frac{7}{10} = \frac{4}{28} = \frac{1}{7}$$

$$\frac{45}{50} \stackrel{?}{=} \frac{9}{10} \qquad \frac{12}{28} \stackrel{?}{=} \frac{3}{7} \qquad \frac{12}{40} \stackrel{?}{=} \frac{3}{10} \qquad \frac{25}{60} \stackrel{?}{=} \frac{5}{12}$$

Practice

1. Draw Base Ten Blocks or shade a hundredths grid to represent each fraction.

Draw Base Ten Blocks or shade a hundredths grid to represent each fraction.

Write each fraction as a percent and as a decimal.

a)
$$\frac{6}{100} = 6\% = 0.06b$$
) $\frac{81}{100} = 0.81 = 81\%$, c) $\frac{17}{50} \frac{34}{100} = 0.54$ d) $\frac{3}{10} = \frac{30}{100} = 0.30 = 30\%$.

e) $\frac{1}{50} = 2$

f) $\frac{1}{5} = \frac{20}{100} = 20\%$ g) $\frac{7}{20} = \frac{35}{100}$ h) $\frac{3}{4} = \frac{75}{100} = 75\%$ = 0.35

= 35%.

- 2. Draw Base Ten Blocks or shade a hundredths grid to represent each decimal. Write each decimal as a fraction and as a percent.
 - a) 0.97
- **b)** 0.03
- c) 0.16
- d) 0.5

- e) 0.65
- f) 0.24
- g) 0.09
- h) 0.7

9)
$$\frac{97}{100} = 97\%$$
 b) $\frac{3}{100} = 3\%$ c) $0.16 = \frac{16}{100} = \frac{8}{50} = \frac{4}{25}$
d) $0.5 = \frac{50}{100} = \frac{5}{0} = \frac{1}{2}$ e) $0.65 = \frac{65}{100} = \frac{13}{50} = \frac{13}{20} = \frac{13}{20$

d)
$$0.5 = \frac{50}{100} = \frac{5}{100} = \frac{1}{2}$$
 e) $0.65 = \frac{65}{100} = \frac{13}{20} = 65\%$

$$f) 0.24 = \frac{24}{100} - \frac{12}{50} = \frac{1}{25}$$

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

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

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

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

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

- 3. Draw Base Ten Blocks or shade a hundredths grid to represent each percent. Write each percent as a fraction and as a decimal.
 - a) 14%
- **b)** 99%
- d) 40%

- e) 35%
- f) 6%
- g) 90%
- h) 15%

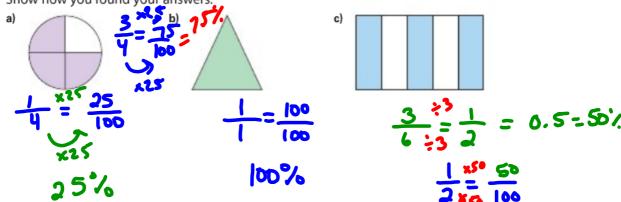
a) 14 % b) 99% c)
$$0.25$$

$$= \frac{14}{100} \stackrel{?}{?} \frac{7}{100} = \frac{99}{100} = \frac{25}{100} \stackrel{?}{?} \frac{1}{100} = \frac{40}{100} \stackrel{?}{?} \frac{1}{2} \frac{2}{100} = 0.40$$

$$= 0.49 = 25\% = 0.40$$

e)
$$35\%$$
 f) 6% 9) 90% h) $15\% = 0.15$ $\frac{35}{100} = \frac{5}{5} = \frac{3}{20}$ $\frac{6}{100} = \frac{3}{5} = \frac{3}{20}$ $\frac{6}{100} = \frac{3}{5} = \frac{3}{20}$ $\frac{100}{100} = \frac{3}{5} = \frac{3}{20}$

4. What percent of each whole is shaded? Show how you found your answers.



5. What percent of each set is shaded?

6. Is each fraction greater than or less than 50%? Explain how you know.

a) $\frac{7}{10}$ b) $\frac{3}{4}$ x35 = $\frac{75}{10}$ c) $\frac{11}{25}$ x10 = $\frac{44}{100}$ d) $\frac{6}{6}$ = $\frac{100}{100}$ %

= 75 %

= 75 % $\frac{3}{10}$ > 50 % $\frac{3}{4}$ x35 = $\frac{75}{100}$ c) $\frac{11}{25}$ x10 = $\frac{44}{100}$ d) $\frac{6}{6}$ = $\frac{1}{100}$ % $\frac{3}{10}$ > 50 %

7. Luis used a calculator to find a decimal and a percent equal to \(\frac{1}{4} \).

How might Luis have done this?

\(\frac{1}{4} = 0 \cdot 25 \)

On Calculator



- Use the data in the table. Is each statement true or false?Explain how you know.
 - a) More than 50% of the audience were adults or seniors.
 - b) Of the audience, $\frac{58}{100}$ were children or teens.
 - c) More than $\frac{1}{4}$ of the audience were adults. \uparrow
 - d) Less than 0.5 of the audience were teens or adults.

Members of	the	Audi	ence
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Age Group	Percent	
Children	13%	
Teens	45%	
Adults	34%	
Seniors	8%	

9. Which is least? Which is greatest?

How do you know?

$$10\% = \frac{1 \times 10}{10 \times 10} 0.01 \Rightarrow 1\%$$

$$100$$

$$100$$

$$100\%$$

10. Ravi got 18 out of 20 on a math quiz.

Karli got 85% on the quiz.

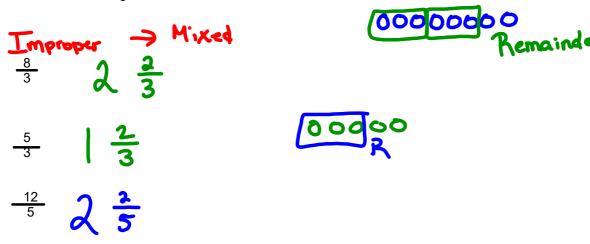
Whose mark was greater? How do you know?

Rev.
$$\frac{18}{20} = \frac{9}{10} \times \frac{10}{100} = \frac{90}{100} = 90\%$$
 for Ravi

- 11. Write a percent that represents:
 - a) a very little of something
 - b) almost all of something
 - c) a little more than $\frac{3}{4}$ of something
 - d) between 0.25 and 0.50 of something

How did you choose each percent?

Convert the following fractions.



Convert the following fractions.

Mixed
$$\rightarrow$$
 Improper $3\frac{1}{2}$

$$7\frac{3}{4} \qquad \frac{31}{4}$$

Find equivalent fractions then put them in order from least to greatest.

$$\frac{14}{7} \quad \frac{5}{3} \quad 2\frac{2}{3}$$

$$\frac{14}{7} \quad \frac{5}{3} \quad 2\frac{2}{3}$$

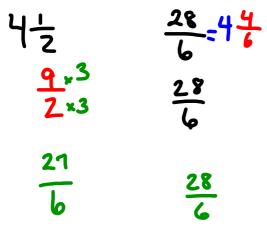
$$\frac{14}{7} \quad \frac{5}{3} \quad \frac{3}{7}$$

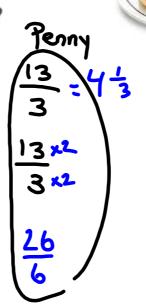
$$\frac{14}{7} \quad \frac{3}{7} \quad \frac{3}{7}$$

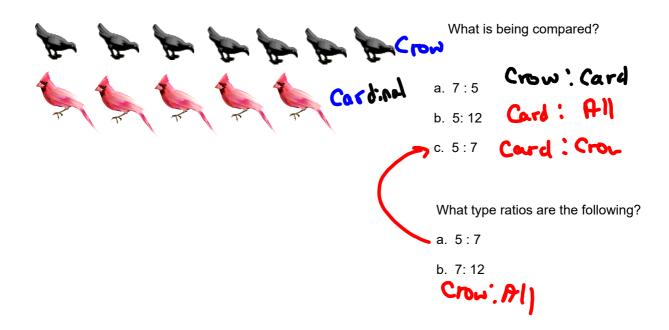
Ratu made $4\frac{1}{2}$ dozen pancakes, Addie made $\frac{28}{6}$ dozen pancakes, and Penny made $\frac{13}{3}$ dozen pancakes.

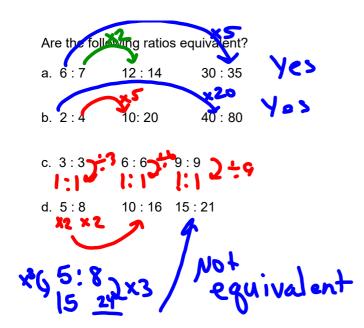
Who made the most pancakes?

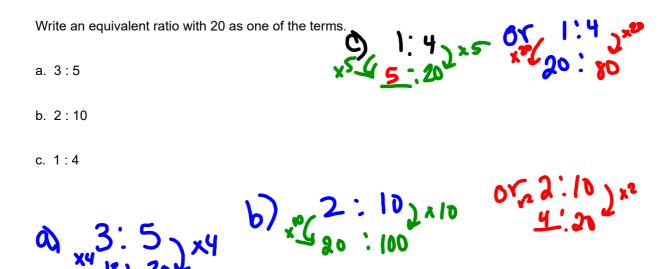
Who made the least?



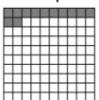


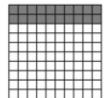




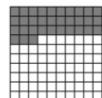


Write a fraction with hundredths, a decimal, and a percent to name the shaded part of each grid.





c)



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Write as a percent. Then write as a decimal.

- a) 37 out of 100
- **b)** $\frac{28}{100}$ **c)** 13:100 **d)** $\frac{93}{100}$

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	Web		ille boorden dibe. The			
	a) 12%		c) 81%	en write as a decimal. d) 65%		

Write each fraction as a percent and as a decimal.

a) $\frac{18}{100}$ b) $\frac{73}{100}$ c) $\frac{4}{100}$ d) $\frac{26}{100}$

e) $\frac{3}{10}$ f) $\frac{7}{20}$ g) $\frac{6}{25}$ h) $\frac{29}{50}$

Write each fraction as a percent.

a) $\frac{8}{32}$

b) $\frac{9}{18}$ c) $\frac{6}{20}$ d) $\frac{35}{70}$

e) $\frac{4}{25}$

f) $\frac{6}{15}$ g) $\frac{14}{28}$

h) $\frac{3}{4}$

What percent of each whole is shaded?

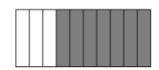
a)



b)



C)





Write each decimal as a fraction and as a percent.

a) 0.21

b) 0.68

c) 0.09

d) 0.24

e) 0.03

f) 0.75

g) 0.15

h) 0.99

Need more

Page 194-195

#1, 2, 3ab, 4ab, 5, 8ab, 9bc, 11,13