Get out your homework from yesterday and have it ready for me to check! Warm Up on the two problems below that can be found on page 12.
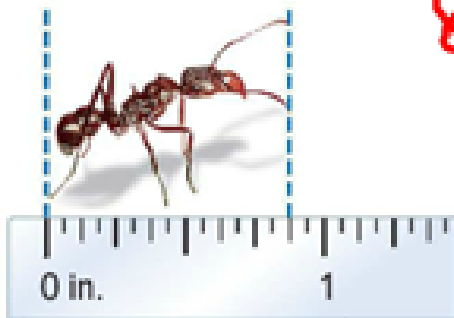
Classwork - Working on converting rational numbers

$$16\overline{)1.00} = .06$$

Warm Up on p.12 in the book!

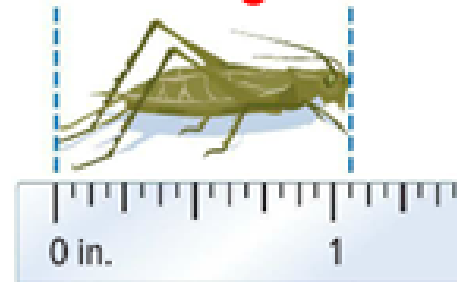**MP** **Be Precise** Write the length of each insect as a fraction or mixed number and as a decimal.

14.

$$8\overline{)7.000} = 0.875$$
$$-64$$
$$60$$
$$-56$$
$$40$$

$$\frac{14 \div 2}{16 \div 2} = \frac{7}{8}$$

0 in.   1

15.

$$1\frac{1}{16}$$

1.0625

0 in.   1

Answer Key

Write each fraction or mixed number as a decimal. SHOW WORK

1. $\frac{3}{5} = 0.6$

$$\frac{3 \cdot 2}{5 \cdot 2} = \frac{6}{10}$$

2. $\frac{5}{8} = 0.625$

3. $\frac{9}{20} = 0.45$

$$\frac{9 \cdot 5}{20 \cdot 5} = \frac{45}{100}$$

4. $\frac{37}{50} = 0.74$

$$\frac{37 \cdot 2}{50 \cdot 2} = \frac{74}{100}$$

5. $-\frac{11}{12} = -0.91\overline{6}$

6. $3\frac{1}{5} = 3.2$

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

Write each decimal as a fraction or mixed number in simplest form. SHOW WORK

7. $-0.8 = -\dfrac{8}{10} = -\dfrac{4}{5}$

8. $0.24 = \dfrac{24}{100} = \dfrac{6}{25}$

9. $-1.35 \quad \dfrac{35}{100} = \dfrac{7}{20}$

$= -1\dfrac{7}{20}$

10. $0.\overline{8}$

$N = 0.\overline{8}$
$10N = 8.\overline{8}$
$\underline{-N \qquad -N}$
$\dfrac{9N}{9} = \dfrac{8}{9}$

$N = \dfrac{8}{9}$

11. $-1.\overline{5}$

$N = 1.\overline{5}$
$10N = 15.\overline{5}$
$\underline{-N}$
$\dfrac{9N}{9} = \dfrac{14}{9}$

$N = \dfrac{14}{9} = 1\dfrac{5}{9}$

12. $4.\overline{45}$

$N = 4.\overline{45}$
$100N = 445.\overline{45}$
$\underline{-N \qquad -4.\overline{45}}$
$\dfrac{99N}{99} = \dfrac{441}{99}$

$N = \dfrac{441}{99} = \dfrac{49}{11} = 4\dfrac{5}{11}$

13. POPULATION Refer to the table at the right.

a. Express the fraction for Asian as a decimal.

0.02

b. Find the decimal equivalent for the fraction of the population that is African American.

0.16

c. Write the fraction for Hispanic as a decimal.

0.2

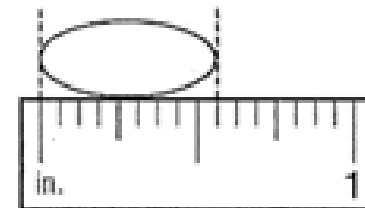| Population of Florida by Race	
Race	Fraction of Total Population
Asian	$\frac{1}{50}$
African American	$\frac{4}{25}$
Hispanic	$\frac{1}{5}$

14. MEASUREMENTS Use the figure at the right.

a. Write the width of the jellybean as a fraction.

$\frac{9}{16}$ in

b. Write the width of the jellybean as a decimal.

0.5625 in

sorry!

Reminder There are 16 dashes, so every dash is an of an inch.

Write each decimal as a fraction or mixed number in simplest form.

1) $0.\bar{8}$ $\boxed{\dfrac{8}{9}}$

$N = 0.888...$
$10N = 8.888...$
$-1N \quad -0.888...$
$$\frac{9N}{9} = \boxed{\frac{8}{9}}$$

2) $0.\overline{38}$ $\boxed{\dfrac{38}{99}}$

$N = 0.3838...$
$\cdot 100 \qquad \cdot 100$
$100N = 38.3838...$
$-1N \quad -0.3838...$
$$\frac{99N}{99} = \frac{38}{99}$$

3) 2.8

$2\dfrac{8 \div 2}{10 \div 2} \boxed{2\dfrac{4}{5}}$

4) $2.\overline{15}$

$N = 2.151515...$
$100N = 215.1515...$
$-1N \quad -2.1515...$
$$\frac{99N}{99} = \frac{213}{99}$$

$N = \dfrac{213}{99} = 2\dfrac{15 \div 3}{99 \div 3} = 2\dfrac{5}{33}$

5) ~~0.65~~

6) 0.125

$\dfrac{125 \div 125}{1000 \div 125} = \boxed{\dfrac{1}{8}}$