Date

1. Rewrite the division expression as a fraction, and divide. The first two have been started for you.

a.
$$2.4 \div 0.8 = \frac{2.4}{0.8}$$

$$= \frac{2.4 \times 10}{0.8 \times 10}$$

$$= \frac{24}{8}$$

$$= 3$$

b.
$$2.4 \div 0.08 = \frac{2.4}{0.08}$$

$$= \frac{2.4 \times 100}{0.08 \times 100}$$

$$= \frac{240}{8}$$

$$= 36$$

c.
$$4.8 \div 0.6 = \frac{4.8}{0.6}$$

$$= \frac{4.8 \times 10}{0.6 \times 10}$$

$$= \frac{48}{6} = 8$$

d.
$$0.48 \div 0.06 = \frac{0.48}{0.06}$$

$$= \frac{0.48}{0.06} \times \frac{100}{100}$$

$$= \frac{48}{6} = 8$$

e.
$$8.4 \div 0.7 = \frac{8.4}{0.7} \times \frac{10}{10}$$

$$= \frac{8.4}{0.7} \times \frac{10}{10}$$

$$= \frac{84}{7}$$

$$= 12$$

f.
$$0.84 \div 0.07 = \frac{0.84}{0.07}$$

$$= \frac{0.84}{0.07} \times \frac{100}{100}$$

$$= \frac{84}{7}$$

$$= 12$$

g.
$$4.5 \div 1.5 = \frac{4.5}{1.5}$$

$$= \frac{4.5}{1.5} \times \frac{10}{15}$$

$$= \frac{45}{15}$$

h.
$$0.45 \div 0.15 = \frac{0.45}{0.15} \times \frac{100}{100}$$

$$= \frac{45}{15} \times \frac{100}{100}$$

$$= \frac{45}{15} \times \frac{100}{100}$$



Lesson 30: Date:

Divide decimal dividends by non-unit decimal divisors.



i.
$$14.4 \div 1.2 = \frac{14.4}{1.2}$$

$$= \frac{14.4}{1.2} \times \frac{10}{10}$$

$$= \frac{144}{12} = 12$$
j. $1.44 \div 0.12 = \frac{1.44}{0.12}$

$$= \frac{1.44}{0.12} \times \frac{100}{100}$$

$$= \frac{144}{12} = 12$$

2. Leann says $18 \div 6 = 3$, so $1.8 \div 0.6 = 0.3$ and $0.18 \div 0.06 = 0.03$. Is Leann correct? How would you explain how to solve these division problems?

how to solve these division problems?
$$18 \div 6 = \frac{18}{6}$$

$$1.8 \div 0.6 = \frac{1.8}{0.6}$$

$$= \frac{1.8}{0.6} \times \frac{10}{10}$$

$$= \frac{0.18}{0.06} \times \frac{100}{100}$$

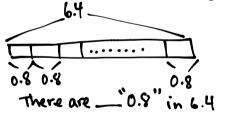
$$= \frac{18}{0.06} \times \frac{100}{100}$$

$$= \frac{18}{0.06} \times \frac{100}{100}$$
Denise is making bean bags. She has 6.4 pounds of beans.

beann is incorrect All three division

problems are equivalent to (8 Sotheir quotient is 3

- 3. Denise is making bean bags. She has 6.4 pounds of beans.
 - a. If she makes each bean bag 0.8 pounds, how many bean bags will she be able to make?



$$6.4 \div 0.8 = \frac{6.4}{0.8}$$

$$= \frac{6.4}{0.8} \times \frac{10}{10} = \frac{64}{8} = 8$$

She will be able to make 8 bean bags

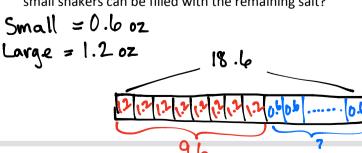
b. If she decides instead to make mini bean bags that are half as heavy, how many can she make?

$$6.4 \div 0.4 = \frac{6.4}{0.4}$$

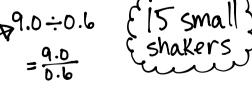
$$= \frac{6.4}{0.4} \times \frac{10}{10} = \frac{64}{4} = 16$$
She will be able twice as many, 16 bean bags.

She will be able to make twice as many, which is

4. A restaurant's small salt shakers contain 0.6 ounces of salt. Its large shakers hold twice as much. The shakers are filled from a container that has 18.6 ounces of salt. If 8 large shakers are filled, how many small shakers can be filled with the remaining salt?







 $=\frac{9.0}{0.6} \times \frac{10}{10} = \frac{90}{6} = 15$

COMMON

Lesson 30: Date:

Divide decimal dividends by non-unit decimal divisors.

4.G.86