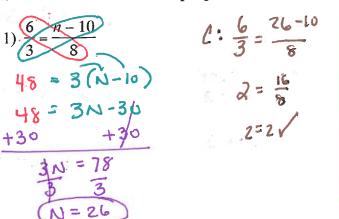
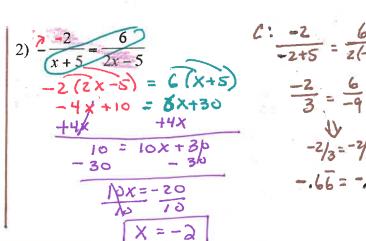
Ch3 CW Review #2 (proportions 2024)

Date_____Period___

Grading: each problem is 8 points

Solve AND CHECK each proportion



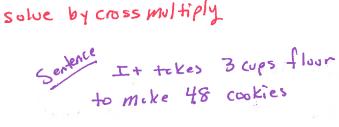


- 3) Write the correct ratios: A school has 200 freshman, 250 sophmore, 250 juniors, and 300 seniors.
 - a) What is the ratio of freshman to sophmores? FRESH = ZOO ZSO
 - reduce 7/5
 - b) What is the ratio of freshman to seniors? FRESH = 200 reduce > 7/3
 - c) What is the ratio of underclassman (which exclude seniors) to all students.

Word problem. Clearly show work -- define your variable, label your ratios/proportions, and answer in a sentence.

4) A recipe for brownies calls for 2.25 cups of flour to make 36 cookies. How many cups of flour are needed to make 48 cookies? PROVIDE A PROPORTION. SOLVE.

KI: FLOUR = $\frac{2.25}{36} = \frac{\times}{48}$ | X = $\frac{1}{3}$ of cups | $\frac{2.25(48)}{36} = \frac{36\times}{36}$ | X = $\frac{36\times}{36}$



5) The ratio of weight on the moon to weight on Earth is 1:8. How many pounds would a 240-lb man weigh on the moon? PROVIDE A PROPORTION. SOLVE.

X = weight
on moon (165)

$$= \frac{1}{8} = \frac{\times}{240}$$

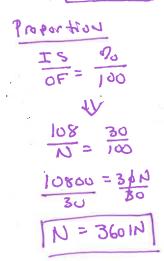
$$= \frac{1}{240} = \frac{6\times}{8}$$

$$= \frac{1}{8} = \frac{\times}{240}$$

Sentence
The min weighs 30165
on the moon.

Solve the percent problem using either PROPORTION METHOD or EQUATION METHOD. Clearly show work!! Round to units (i.e. xx) Circle answer and include units.

6) 108 inches is 30% of what?



7) 68.6 m is what percent of 28 m?

$$\frac{68.6}{28} = \frac{P}{100} \qquad \frac{68.6}{28} = \frac{P.28}{28} \\
\frac{6860}{28} = \frac{38P}{28} \qquad P = 2.45$$

$$P = 2459$$

$$P = 2459$$

8) 170% of what is 25.5 grams?

9) What is 5% of 160 minutes?

$$\frac{N}{160} = \frac{5}{100}$$
 $\frac{100}{100}$
 $\frac{100}{100}$
 $\frac{100}{100}$

10) 5 hours is what percent of 62.5 hours?

$$\frac{5}{62.5} = \frac{P}{100}$$
 $\frac{500 = 62.5P}{62.5}$
 $\frac{62.5}{62.5}$

$$\frac{EQ}{5 = 9.62.8}$$
62.5

-2-

11) What is 90% of \$33.32?

Proportion
$$= 90$$
 $N = 90.9.33.32$
 $100N = 2998.8$
 $N = 29.99
 $N = 30
 $N = 30