

Tier	A	#/	-10)	
Tier	B	#8	-1	18	
Tier	- C	. #	12:	-2;	<u>L</u>

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Proportion Word Problems

Solve each proportion.

1)
$$\frac{5}{6} = \frac{f}{12}$$

2)
$$\frac{x}{18} = \frac{2}{3}$$

$$3) \quad \frac{30}{k} = \frac{15}{18}$$

4)
$$\frac{4}{5} = \frac{s}{25}$$

5) Tell if the two ratios form a proportion:

a)
$$\frac{1}{2}$$
 and $\frac{14}{28}$

b)
$$\frac{6}{8}$$
 and $\frac{4}{3}$

a)
$$\frac{1}{2}$$
 and $\frac{14}{28}$ **b)** $\frac{6}{8}$ and $\frac{4}{3}$ **c)** $\frac{8}{18}$ and $\frac{20}{45}$

Solve each proportion:

6) 1 subscription for \$21 28 subscriptions for x dollars

- 7) 1 gallon of water weighs $8\frac{1}{3}$ pounds 30 gallons of water weighs x pounds
- 8) $\frac{1}{4}in$ represents 1 meter $\frac{4}{5}in$ represents x meters

9) 25 cm. by 35 cm. enlarged to 150 cm. by x cm.

10) 18 ozs. of iced tea costs \$2.99. How much will 30 ozs. cost?

11)Paula jogged 10.8 miles in 2 hours. How far will she jog in 15 hours?

12)If a 10 pound turkey takes 4 hours to cook, how long will it take a 14 pound turkey to cook?

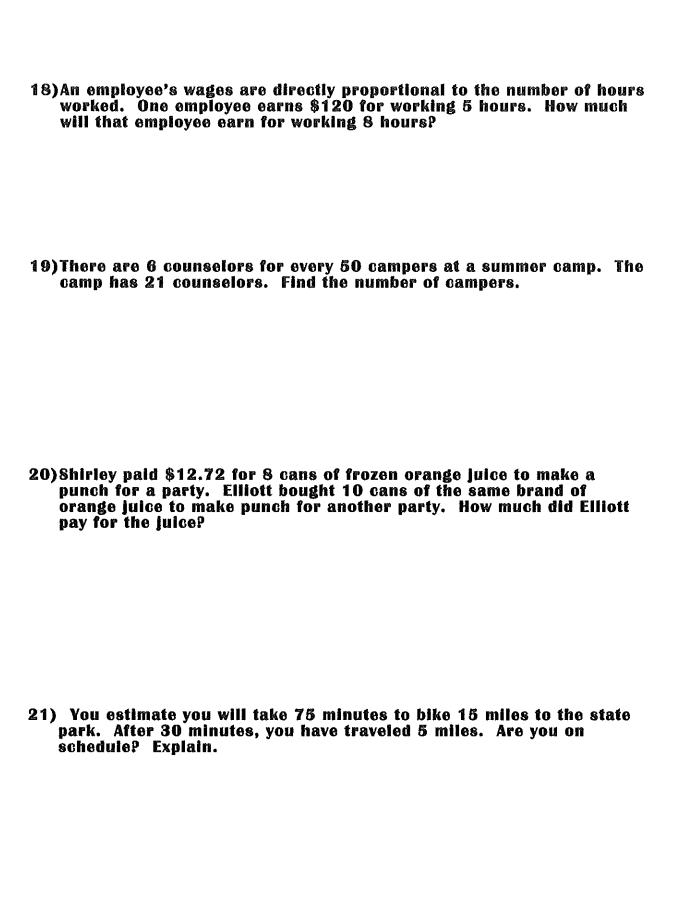
14) Tell if the two ratios form a proportion.

- **a)** $\frac{3}{10}$ and $\frac{15}{25}$ **b)** $\frac{7}{8}$ and $\frac{15}{18}$ **c)** $\frac{20}{1.5}$ and $\frac{60}{4.5}$

15) If 2 liters of Gatorade cost \$3.98, how much so 8 liters cost?

16) A copying machine can reduce the size of the material being copied. A diagram measuring 16 cm. wide by 20 cm. long is reduced. If the diagram on the reduced copy is 15 cm. long, what is its width?

17)In 7 hours of driving, Vince traveled 364 kilometers. If he travels at the same rate, what distance will he have driven in 12 hours?



22)A recipe for fruit salad serves 4 people. It calls for $2\frac{1}{2}$ noranges and 16 grapes. You want to serve 11 people. How many oranges and how many grapes will you need?