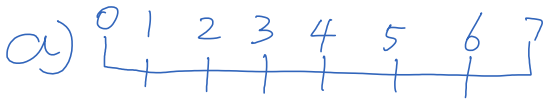


By DANIEL ME

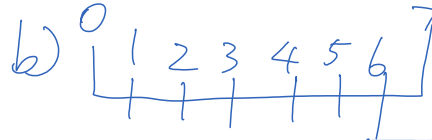
1.



$$4x = 5$$

$$4x \div 4 = 5 \div 4$$

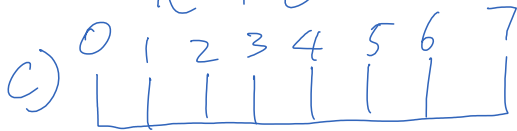
$$x = 1.25$$



$$6x = 7$$

$$6x \div 6 = 7 \div 6$$

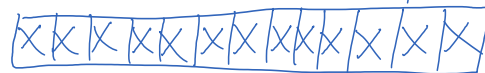
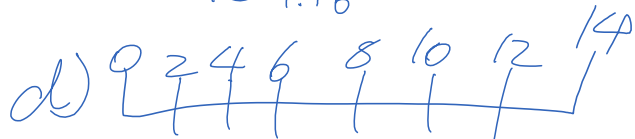
$$x = 1.1\bar{6}$$



$$11x = 6$$

$$11x \div 11 = 6 \div 11$$

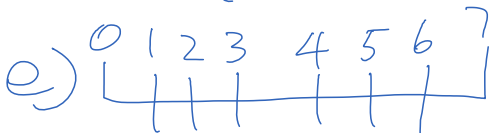
$$x = 0.5\bar{4}$$



$$13x = 14$$

$$13x \div 13 = 14 \div 13$$

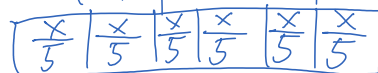
$$x = 1.1$$



$$\frac{x}{7} = 4$$

$$\frac{x}{7} \times 7 = 4 \times 7$$

$$x = 28$$



$$\frac{x}{5} \times 6 = 10.5$$

$$\frac{x}{5} \times 6 \div 6 = 10.5 \div 6$$

$$\frac{x}{5} = 1.75$$

$$\frac{x}{5} \times 5 = 1.75 \times 5$$

$$x = 8.75$$

2.

a) $3x = 12$
 $3x \div 3 = 12 \div 3$
 $x = 4$

b) $4x = 18$
 $4x \div 4 = 18 \div 4$
 $x = 4.5$

c) $\frac{x}{3} = 5.5$
 $\frac{x}{3} \times 3 = 5.5 \times 3$
 $x = 16.5$

d) $5x = 19$

e) $\frac{x}{5} = 7.7$

f) $\frac{x}{4} = 4.2$

$$5x \div 5 = 19 \div 5 \\ x = 3.8$$

$$\frac{x}{5} \times 5 = 7.7 \times 5 \\ x = 38.5$$

$$\frac{x}{4} \times 4 = 14.2 \times 4 \\ x = 56.8$$

$$g) \frac{3x}{4} = 8.2$$

$$\frac{3x}{4} \times 4 = 8.2 \times 4$$

$$3x = 32.8$$

$$3x \div 3 = 32.8 \div 3$$

$$x = 11$$

$$h) \frac{4x}{5} = 20$$

$$\frac{4x}{5} \times 5 = 20 \times 5$$

$$4x = 100$$

$$4x \div 4 = 100 \div 4$$

$$x = 25$$

$$i) \frac{3x}{2} = \frac{18}{16}$$

$$\frac{3x}{2} = 1.125$$

$$\frac{3x}{2} \times 2 = 1.125 \times 2$$

$$3x = 2.25$$

$$3x \div 3 = 2.25 \div 3$$

$$x = 0.75$$

3) The time (hour) that it takes an object to travel a certain distance (km) is equal to the distance divided by the speed (km/hr). How far can a car travel in 3.5 hours at 65 km/hr?

$$\frac{d}{65} = 3.5$$

$$\frac{d}{65} \times 65 = 3.5 \times 65$$

$$d = 227.5 \text{ km}$$

4) 90% of all Eric's friends are in grade 8. If he has 27 friends in grade 8, how many friends does he have in total?

$$x - 10\%x = 27$$

$$90\%x = 27$$

$$x = 27 \div 0.9$$

$$x = 30 \text{ friends.}$$

5) Betty earns commission on $\frac{2}{9}$ of all her sales as a realtor. If she earned \$4200 in commission this month, how much was her total sales.

$$\frac{2}{9}x = 4200$$
$$\frac{2}{9}x \div \frac{2}{9} = 4200 \div \frac{2}{9}$$
$$x = 18900 \text{ dollars}$$

b) Kayla worked 195.5 days on her job and completed 97.75% of her contract. How many more days does she need to work to complete her work?