

Name:

ANSWERS!

Period:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Part 2-7 Classwork

Calculators OK

Solve for a and b .

Question 01

The table below shows the relationships between cups of raisins and cups of cashews in a recipe for trail mix.

Raisins	a	8	12	30
Cashews	3	6	9	b

$$\frac{a}{3} = \frac{8}{6}$$

$\div 2$

$$a = 4$$

$$\frac{12}{9} = \frac{30}{b}$$

$$9 \times 30 \div 12 = 22.5$$

$$b = 22.5$$

Question 02

The table below shows the relationships between cups of almonds and cups of walnuts in a recipe for trail mix.

Almonds	a	14	21	52.5
Walnuts	5	10	15	b

$$\frac{a}{5} = \frac{14}{10}$$

$\div 2$

$$a = 7$$

$$\frac{21}{15} = \frac{52.5}{b}$$

$$15 \times 52.5 \div 21 = 37.5$$

Question 03

The table below shows the relationships between cups of apple juice and cups of grape juice in a recipe for fruit punch.

Apple Juice	a	8	12	44
Grape Juice	2	16	24	b

$$\frac{a}{2} = \frac{8}{16}$$

$$\frac{12}{24} = \frac{44}{b}$$

$$24 \times 44 \div 12 = 88$$

Question 04

The table below shows the relationships between cups of orange juice and cups of ginger ale in a recipe for fruit punch.

Orange Juice	a	15	20	28
Ginger Ale	6	18	24	b

$$\frac{a}{6} = \frac{15}{18}$$

$$\frac{20}{24} = \frac{28}{b}$$

$$24 \times 28 \div 20 = 33.6$$

Question 05

The table below shows the relationships between gallons of blue paint and gallons of yellow paint used to make a particular shade of green.

Blue	a	18	45	81
Yellow	4	8	20	b

$$\frac{a}{4} = \frac{18}{8}$$

$$\frac{45}{20} = \frac{81}{b}$$

$$20 \times 81 \div 45 = 36$$

$$a = 9$$