a. What fraction of the students are boys? Justify your answer.

4 There are 4 boys + 6 girls and 9 total Students

b. If there are 120 boys, how many students are there altogether? Justify your answer using at least two different strategies.

a. What fraction of the students are boys? Justify your answer.

boys girls
4:5

4 boys 5 girls
9 students 9 students

When you add the boys + girls
together you get 9 total Students

b. If there are 120 boys, how many students are there altogether? Justify your answer using at least two different strategies.

May Boys	30	30 30	36	= 120		120 E	301/5 Students
Girls	30	30 30	0 30	30 = 15	·O	270	Student
120 150 270 total students							
Wmy2 B 4	5 50	Studen 9 90					
80	100	180		120	Boys Student	8	
5							

a. What fraction of the students are boys? Justify your answer.

49

b. If there are 120 boys, how many students are there altogether? Justify your answer using at least two different strategies.

120

a. What fraction of the students are boys? Justify your answer.

4 5

b. If there are 120 boys, how many students are there altogether? Justify your answer using at least two different strategies.

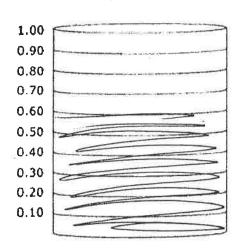
120

Tim makes 80 gallons of paint by mixing 48 gallons of green paint with 32 gallons of blue paint.

What part of every gallon is from green paint?

The model represents 1 gallon of mixed paint. Color in the number of sections to show much of the gallon is from green paint.

1 gallon



$$\frac{32}{48} = \frac{4}{6} = \frac{2}{3} = .6$$

Tim needed 50 additional gallons of paint. He made 50 gallons by mixing 28 gallons of green paint with 22 gallons of blue paint.

Will this produce the same color as his 80 gallon mix? Mathematically justify your solution.

If it won't, how many gallons of which colors should be added or subtracted to create 50 gallons of the same color as the 80 gallons? Mathematically justify your solution.

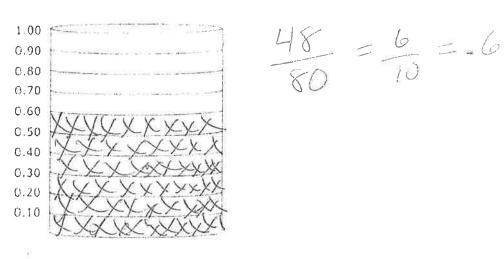
Name_	Student	B	

Tim makes 80 gallons of paint by mixing 48 gallons of green paint with 32 gallons of blue paint.

What part of every gallon is from green paint?

The model represents 1 gallon of mixed paint. Color in the number of sections to show much of the gallon is from green paint.

1 gallon



Tim needed 50 additional gallons of paint. He made 50 gallons by mixing 28 gallons of green paint with 22 gallons of blue paint.

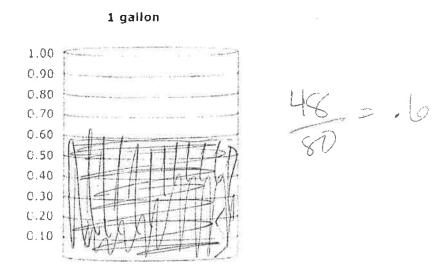
Will this produce the same color as his 80 gallon mix? Mathematically justify your solution.

If it won't, how many gallons of which colors should be added or subtracted to create 50 gallons of the same color as the 80 gallons? Mathematically justify your solution.

50 x .6 = 30 - not it won't make the same color. Tim makes 80 gallons of paint by mixing 48 gallons of green paint with 32 gallons of blue paint.

What part of every gallon is from green paint?

The model represents 1 gallon of mixed paint. Color in the number of sections to show much of the gallon is from green paint.



Tim needed 50 additional gallons of paint. He made 50 gallons by mixing 28 gallons of green paint with 22 gallons of blue paint.

Will this produce the same color as his 80 gallon mix? Mathematically justify your solution.

If it won't, how many gallons of which colors should be added or subtracted to create 50 gallons of the same color as the 80 gallons? Mathematically justify your solution.

[80 gal] [50 gal] When you reduce

G B G B the ratios of the

48:32 38:32 80 gal batch the ration

6:4 14:11 gar batch the same

3:2 50 the same color.

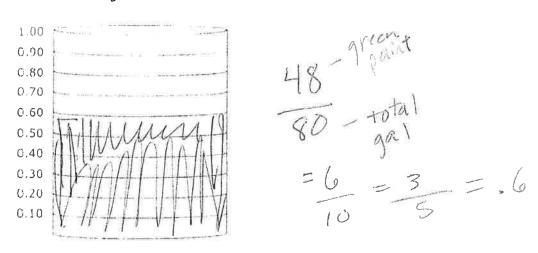
Name Student D

Tim makes 80 gallons of paint by mixing 48 gallons of green paint with 32 gallons of blue paint.

What part of every gallon is from green paint?

The model represents 1 gallon of mixed paint. Color in the number of sections to show much of the gallon is from green paint.

1 gallon



Tim needed 50 additional gallons of paint. He made 50 gallons by mixing 28 gallons of green paint with 22 gallons of blue paint.

Will this produce the same color as his 80 gallon mix? Mathematically justify your solution.

If it won't, how many gallons of which colors should be added or subtracted to create 50 gallons of the same color as the 80 gallons? Mathematically justify your solution.

Student A

Anna and Jason have summer jobs stuffing envelopes for two different companies. Anna earns \$14 for every 400 envelops she finishes. Jason earns \$9 for every 300 envelopes he finishes.

a) Who makes more from stuffing the same number of envelopes? Justify you answer, such as using mathematics, words, table, graph, and/or equations.

Anna Made \$114 and Jason made \$9, So Anna makes More Money:

b) Write an equation that represents both Anna and Jason earnings. (As a function of the number of envelopes stuffed)

number of envelopes stuffed)



Anna and Jason have summer jobs stuffing envelopes for two different companies. Anna earns \$14 for every 400 envelops she finishes. Jason earns \$9 for every 300 envelopes he finishes.

a) Who makes more from stuffing the same number of envelopes? Justify you answer, such as using mathematics, words, table, graph, and/or equations.

Anna \$14 per 400 envelopes

Joson \$19 per 300 envelopes

Anna \$14 = \$15 0.035 per envelope

Joson \$2 = \$10.03 per envelope

Anna makes \$0.035 per envelope

Anna makes \$0.035 per envelope and Sason only makes \$5.53 per envelope

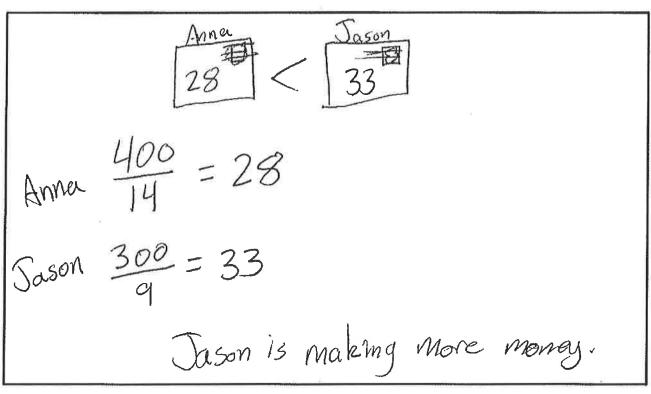
b) Write an equation that represents both Anna and Jason earnings. (As a function of the number of envelopes stuffed)

Anna  $y = 0.035 \times 0.035 (400) = $14.00$ Jason  $y = 0.03 \times 0.03 (300) = $19.00$   $y = 400 \times 4 = 400$   $y = 400 \times 4 = 400$ 

Student C

Anna and Jason have summer jobs stuffing envelopes for two different companies. Anna earns \$14 for every 400 envelops she finishes. Jason earns \$9 for every 300 envelopes he finishes.

a) Who makes more from stuffing the same number of envelopes? Justify you answer, such as using mathematics, words, table, graph, and/or equations.



b) Write an equation that represents both Anna and Jason earnings. (As a function of the number of envelopes stuffed)

## Student D

Anna and Jason have summer jobs stuffing envelopes for two different companies. Anna earns \$14 for every 400 envelops she finishes. Jason earns \$9 for every 300 envelopes he finishes.

a) Who makes more from stuffing the same number of envelopes? Justify you answer, such as using mathematics, words, table, graph, and/or equations.

Jason 300 ÷ 3 100 \$9 ÷ 3 \$3.00	Anna Anna makes  Anna Anna makes  Anna More for 00  more for 00  more envelopes,  # 3.50 more  # 3.50 more
Jason would make \$3.00 for every 100 envelopes sold stuffed.	Anna would make \$3.50 For every 100 envelopes stuffed

b) Write an equation that represents both Anna and Jason earnings. (As a function of the number of envelopes stuffed)

