Plato's Trail Mix. Plato's Trail Mix has 10 raisins for every 3 nuts. In a large bag of Plato's Trail Mix, the number of raisins is R and the number of nuts is N. Which is correct? Explain.

a) 
$$10R \approx 3N$$

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Raisins(e) 10 Nuts M 3

b) 3R = 10H

The ratio of vaishes to note in a Plato's Trail

Mix bag is 10 to 3. The correct answer to the greation is Oboice to 3R × 10N based on the information given. Three times the number of voisins it approximately equal to ten times the number of notes. Of this can easily be obtained from the proportion  $\frac{R}{N} = \frac{10}{3}$  with Orces kultiplication.

On Prample: There are 30 raisins in a given bog. Based on the proportion  $\frac{30}{N} = \frac{10}{3}$ , N = 9When R = 30. 3R = 10N, then 3(30) = 10(9).

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some random variation.)	
(b) vis correct. 3R ≈ 10N	J Table
Al Raisins R 2 10 Nuts N 2 3	X   2   3   10
* Cross-muetiply	6 20 9 30
	$n = \frac{20 + 10}{6 - 3} = \frac{10}{3}$
	R= 9Nto
BDirect Variation  y=kx 3. R=1/3 XI	30= 3 (9)+6
R=KN 3R=10N	30=30+6
10= K-3 3 - 3	3. R=12 N-3
answer (6) is correct of there are loraising for every 3 nuts then by using a proportional reason in model and setting up a proportion	3R=10N
for every 3 nuts than of ap a proportion reasoning model and setting up a proportion and soling, I was able to show that when the and soling, I was able to show there are 3 times the Drates are spend is when there are 3 times the number of raising and 10 times as many ruts. (Which number of raising and 10 times as many ruts. (Which lends to the LCM of 30.) I also showed using linear of washes and tables.	3. P ~ 10N 3R ~ 10N Ardind LCM

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I think letter b is correct. If you multiply the number of raisins times three you will have a total of thirty. It menter to reits times ten you will have a total of thirty. As mentioned in the information the total would not be exact therefore, I am missing some Keyport of the problem.

B) R N 10 3 20 6 30 9

Plato's Trail Mix. Plato's Trail Mix has 10 raisins for every 3 nuts. In a large bag of Plato's Trail Mix, the number of raisins is R and the number of nuts is N. Which is correct? Explain.





(The symbol  $\approx$  means "is approximately equal to." We would not expect the numbers to be exactly equal, since there is some random variation.)

The number of raisins in the trail mix is roughly three times the number of nuts. Hence, r=3n. The number of nuts in the trail mix is roughly much 1955 and a multiple of 3 since there are three nuts for every 10 raisins. Therefore the number of nuts is equal to 10 times the number of vaisins, n=10r. The original ratio rin can be substituted, as a general rule, 3n:10r.

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Let N be the number of nuts

Let R be the number of raising

In this problem, it rays that he every anute, there are 10 raisins. To we can set up the proportion as it the number of nuts over the number of raisins

$$\frac{N}{R} = \frac{3}{10}$$

i letter b is correct

We are measuring the number of nuts in terms of the number of raisins.

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Plato's Trail Mix has 10 Paisins for every 3 Notes. For example, if there were 20 Pairins, then 6 pots would be in the nix, 30 pairins, 9 nuts, and so on. Those numbers are Not exactly accurate since there is some random variation. However, one can describe these quantities as approximately equal to each other with respect to multiples. Meaning the mathematical statement 3R × 3N could be considered a true statement if R represents the number of Raisins and N Represents the number of Nits. When the amont of Raisins is multiplied by 3 and the amont of Nets is multiplied by 10, the two grantities would be approximately equal.

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100 195115 30 m/z B) "3R210N" is correct to approximate the ratio of rasins to nuts in a standard long of Plato's trail mix. This can be seen through application: say for example we have a small by that only centains 10 mains and 03 nuts. Substituting these numbers into A) would yield an utterly fake statement. 10(10) 23(3) However substituting again in the second statement yields the statement. 3(10) 2 10(3) 30 € 30. This statement continues to hold true for any set of numbers provided the ratio of raisons to nuts is 10:3.

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The trail mix has no rousine for every 3 news, which means for every 10 rousine there is an capetualist number of news of 3.

Thus to put it into symbol: 10K = 3N

Just like caying in this voron there are six mases for every 20 females, which means for every six males there is an equivalent number of furales which is 20.

In Symbol: 6M=207; lot M=maker and F= femaker

NOT be ofer way around of 20 M = 67.

In the problem about, the number 10 is specifically for vaising not nuts. And the number 3 solored for the specific number of societies nuts not raising.

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The trail mix has 10 raisins t. There si to raceino ation um would be 3 muto similar) to the have m 4=5+ as the ren their ent when

Plato's Trail Mix. Plato's Trail Mix has 10 raisins for every 3 nuts. In a large bag of Plato's Trail Mix, the number of raisins is R and the number of nuts is N. Which is correct? Explain.

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Since there are 10 raisins for every 3 nuts, We can express this as 3R = 10N (b). For every 10 raisins that is in the bag, you will find approximately 3 nuts. The total number of items in a bag of Plato's Trail Mix is R+N = T. For every 10 raisins we have 3 nuts so  $N = \left(\frac{3}{10}\right)R$ . This implies that ION= 3R. Thus, Choice (b) is Correct. Alternatively,  $R = (\frac{10}{2})N$ . This implies that 3R = 10N. Again, this is choice (b). Or, We can test Choices (a) and (b). If R=10 and N=3, Choice (a) is false since 10(10) \$\neq 3(3)\$ => 100 \neq 9. Choice (b) is correct since 3(10) = 10(3) => 30=30, Again Choice (b) is correct.

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The ratio of raisins: nuts is 10:3. Therefore, you could set this up as:  $\frac{R}{N} = \frac{10}{3}$ 

If you simplify this to be in the format as given for a) and b) it would be written  $3R \approx 10N$  after multiplying to get the cross-products. This means that b) is the correct option.

option a) books like it would be the correct answer since the information given is "10 raisins for every 3 nuts."

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answer a) 102 = 3N is correct Since R represents the number of raisins, and N represents Number of nuts, and since there 10 raisins for every 3 nuts in the large bag of Plato's Trail the correct 10 R ≈ 3N.

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The sentence tells the reader that there are 10 raisins for every 3 nuts. This tells me that for every 3 nuts, there is approximately 10 raisins.

Option a is the correct answer. 10 Raisins is approximately equal to 3 Nuts

Option b is incorrect because the letters are swapped. 3 Raisins will NOT be approximately equal to 10 Muts.

This can also be displayed visually:

a) RRRRR & N RRRRR & N

Only option A shows 3 Muts and 10 Raisins, so it must

be the correct answer.

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Neither solution is correct was a Ratio (:) sign they would more accurate. There were work 10R:3N. The two numbers are not. approximately equal to one another but increase and decrease in relationship with one another For example, if you have 50 Raisins you would have 15 huts. As long as the vatio numbers in front of the Variable "R" and "N" Hay constant, the variable "R" and ON" will be to each other In conclusion: RXN when 10R:3N

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The correct answer is a)  $10 \, \mathrm{k} \approx 3 \, \mathrm{N}$ . Based on the given, Plato's Trail Mix how 10 raising for every 3 nuts. The probability of having the same ratio is somewhat similar in a large bag of Plato's Trail Mix. So, using the given R is the number of raising and N is the number of raising and N is the number of less 10 raising is approximately equal to 3 nuts.

the choice of b is incorrect since the expression  $3R \approx 10N$  is read as 3 raising for every 10 nucle. There is not enough information supporting this expression, based on the given.

In solving a problem (mathematical), first thing to do is identity the given and what is being ask.

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R= Raisino	n=nuts		
10	3		
<i>a</i> 0	6		
30	9		
40	12		
		0	
10(10) X 10(30) X 10(30) X	3(6)	3(10) 3 1 3(20) 3 3(30) 2	10(6)
The course	ct approxu	mation w	La

The courect approximation is

3R 2 10 N. It used a table to

Ahow the rubationship between

nuts and vaisins and then used

the numbers in the table to see

which rubationship was true by

substituting in the Values.

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Given: raisins=
$$R$$
; nuts= $N$ ; 10 raisins to every  $3$  nuts  $10r$  or  $\frac{30}{13}$   $0$   $10R$ :  $\frac{3}{3}N = \frac{10R}{3}$ :  $N$  or  $\frac{90R}{10}$ :  $\frac{3}{10}N$   $R$ :  $\frac{3}$ 

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$$\frac{Strukhi}{R - * of raisins} \qquad \frac{raisins}{nuts} = \frac{R}{N} \quad on set : \frac{10}{3}$$

$$N - * of nuts$$

Proportion in Platois Trail here (PTM):

If manhor compress

10R + 1 => 10R & 3N

= Explanation

a.) IDR & 3N would be the correct statement better R be that raising sin the bag in N represent the for every 3 the two same bag.

Since PTM contains 10 R for every 3 the part, we have up the entire contains of the bag, we can set up the maker of the velation 10 R = 1 = P to R = 3N.

As stated about, if we account for some random variation, we can see to R x 3N.

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R#raisins 10 raisins for every 3 nuts

N=# nuts

10:3 Raisins: nuts

If there are 10 Raisins there

are 3 nuts

So, 10.10 \$\notine{3}\$.3.

Now, 3.10 \$\notine{10}\$ by substitution

when 10=R and N=3.

Thus, B is the correct

answer.

Given: 10:3 Raisins: nuts

Pore: 38210N

Let R = # raisins and N = # nuts

Since the Ratio of Raisins to nuts is 10:3

for any value of raisins on nuts

Tor (Let r = any multiple of raisins and n = any multiple

Consider 38 ~ 10N

3 (10r) ~ 10(3n)

30 r' ~ 30 n

the number of raisins and must be will

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to raisins is 3:10 (3 to 10). Since there is some random variation, this ratio is approximately proportionate. However, the random variation closs not impact the direct variation of the ratio. As the N increases R increases and vice versa. a) 10 R & 3 N is incorrect because the only way 10 R & 3 N can be approximately equal is if R and N are not same, but R and N would have to be the same to meet the demands of the ratio. b) 3 R & 10 N is correct because proportionately it can be within the constraints of the demand of the ratio.