A-SSE Delivery Trucks . A company uses two different-sized trucks to deliver sand. The first truck can transport x cubic yards, and the second y cubic yards. The first truck makes S trips to a job site, while the second makes T trips. What do the following expressions represent in practical terms?

a. S+T

b. x + y

c. xS + yT

d. $\frac{xS+yT}{S+T}$

TRUCK 1

let X = # of cubic yards transported by Truck 1

S = # of trips made by Truck 1

TRUCK 2 jums in

Let y = 4 of cubic yards transforted by Truck ? T = 4 of trips made by Truck ?

- a.) Str > This expression represents the sum or the combined number of trips made by both. The first and second Mart trucks.
- b) x ty —7 This expression represents the sum or the combined number of items in cubic yards made by both the pirst and second trucks.
- C.) xS+yT -> This expression represents the total number of items in culaic yards fransported by both Trucks in terms of the number of trips made by each truck. (quantity transported)
- d.) $\times S + yT$ -> This expression represents the ratio between the total number of trips made ferms of the number of trips made in to the combined number of trips of both trucks.

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a. S+T

b. $x + \frac{1}{2}$

c. xS + yT

d. $\frac{xS+yT}{S+T}$

and second truck to deliver sand.

b. The total number of cubic yards delivered.

C. The amount of sand delivered in cubic yards.

by the first and second track based on the # of trips made.

The average amount of sand delivered

in each trip.

6) The amount of sand delivered in one trip by the first and second truck.

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a. S+Tc. xS + yTX sepresents the amount of cupic yard truck Athes S' represents the #of trips truck A takes y represents the amount of cubic yeards that B Trepresents the # of trips taken by truck B. A) S+T represents the total # of tripstaken by both trucks A and B. 6.) xty represents the total amount of cubic yards of sand that was elektroped by the combined MANHAMM trucks A & B. a) xS+y1 represents the total amount of Sand in cubic yards that is delivered by I trips and I trips. d.) xS+yT represents the average amount of sand in cubic yards delinered by either track AraB.

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a. S+T b. x+y c. xS+yT d. $\frac{xS+yT}{S+T}$

A. STT S+T represents the total number of trips that the two tracks make to the site combined. B Xty X ty represents the total cubic feet yards of sand transported par time that the tracks make deliveries. C. XS+YT XStyt represents the total cubic the feet of sand transported by both trucks after they have completed all of their respective trips. D. *StyT represents the average number of cubic feet styring specifications of the two different specifications of the two trucks)

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a) The pum of the number of trips mode lay the two trivoles. If S=4 and T=5, therefore there a trips made lay the two trivoles in a porced of Home. b) Xty: The port of cubic yards, that was transported by the fur truotes. Say X = 150 yd3 and y= 200 yd3, So Xty = 150 yd3+200 yd3=350 yd3 C) XS+MT The sum of the product made by the for touches, their frips and their pour back. Say: $x = 150 \cdot yd^3$; $y = 200 \cdot yd^3$ to: xS + yI S = 4 T = 5 (150 yd³)(4). (150 ya3)(4) + (200 ya3)(5) = 6504d3+14004d3 a) XS+VI = 1,600 yd3 a) The vation of the product mode by the two trucks. Heir folgs and their pay wood by the sum of the tripes of the two toucks. Say: X = 150 yd3; y= 200 yd3 S=4 T = 5 So: XS+N1 = (15+4d)(4)(200 yd3)(5)

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a. S+Tc. xS + yTb. x+yFirst truck -> X yds3 -> Strips Second trick -> 4 yds 3-> Ttrps a)S+T expresses the total amount of trips both tucks make to the job site. Strips +T trips istT. b.) X+y expresses the amount of sandin cubic yards that both trudes combined can carry. X cubicyards+ y cubic yards, X+4 C.) XS+ yT expresses the total amount of sand that was carried to the job site by both trucks. First truck > Carries X Cubic yards · Strips > XStyT Second truck > Carries Y cubic yards · Ttrips d.) XS+yT expresses the fotal amount of Sand delivered to the job site divided by the total number of trips both trucks took. The will give you the average amount of sand that was. You the average amount of sand that was. I carried to the job site each trip.

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a.
$$S+T$$
 b. $x+y$ c. $xS+yT$ d. $\frac{xS+yT}{S+T}$

a. It T refers to the sum of trips of the two delivery trucks. In other words, the total trips that the two trucks can make

b. X + y

If x is the no. of cubic yards that the list truck can deliver and y is the no. of cubic yards that the 2rd bruck can deliver, then x ty is the sum of number of yards that the two trucks can transport.

c. XV + yT

this is the total trips made by the two trucks with the first truck transporting x cubic yards and the second truck transporting y cubic yards.

this refus to the ratio of the testal trips made by the two trucks, with the first truck transporting x entire yeards and the seems truck transporting y cubic yards and the runn of the trips of the two trucks.

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b. x + v

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The expression S+T represents the total trips the two different trucks made to the job size.

D'The expression X+y represents the total Cubic yards of Sand both trucks can deliver in one trip.

The expression XS+yt represents the total sand delivered to a job site after 5 and Trips.

average cubic yards of sand delivered per trip to the york site.

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a. 5+T represents the total number telps made to the job site? orth trucks combined. represents the combined (sinde) load in cubic vards of both trucks for a single trip 25 + UT represents the total number of culic narde of sand the course of all treps. represents the aver in a single true lig truck combined For each of the above, I used the Variable definitions provided in the problem, That is, 5 o user to the number of treps ea trucks makes and to the number of a sand delinered by each the

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a) Total number of trips made by both trucks to their respective Job sites.

b) Total amount in cubic yards that can be transported by both trucks in one trip.

C) Total amount of a volume transported to job sites by the two trucks.

d) The average amount of a volume transported by the two tracks per trip.

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It S represents the number of trips the first truck makes, and T represents the number of trips the second thuck makes, then StT represents the number of the first truck and the Second make altogether when combined. If x represents the cubic yords the first truck transports and y represents the amount of cubic yards the second truck transports X+y represents the amount of cubic yards the toucks can deliver together to one transport. to find the total amount transported by both trucks altogether. You would use the expression xS+yT. You are multiplying the amount of work yards by the number of trips for both trucks and adding them together. The expression xS+XT is dividing the amount by the total thansported per thip,

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a) represents the # of trips total. The number of trips the first SHT truck makes and the number of trips the second truck makes. b) Represents the total amount of cubic yards that the 2 trucks can transport at one time. Represents the total amount of sand delivered. $x = 29^3 = 2(6) + (3)(4) = 24$ cubic yards transported. $y = 3y^3$ Laborate yards 5 = 6 7 = 42 cubic

unreds to times Zeubic yards, 6 times Using the same numbers as above: $\frac{24}{6+4}$: $\frac{24}{10}$: $\frac{24}{5}$ Average amount of sand transported. 24 cubic yards of sand transported over 10 trips.

Can also be viewed as a Ratio: Total Amount of Sand belivered

Total trips

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a. The total number of trips both dump trucks make. (A)

b. Total number of outic yards the dumptrucks travel (B)

c. Sum of the cubicyards times # of trips for both dump trucks (C)

d. Sum of the cubic yards times the number of trips divided by the sum of the \$ number of the

C A

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The best expressions that represents in practical terms is C. XS +41. That was delivered it to multiply the #of cubic yards and the number of trips of each truck then add them in together to get the total. Ex. Let x = 10 yarde3 y=9 yardes 9 = 3 trips T=2 tnp In relining the total cubic yards that wound We can solve for the total the product of XS and yT. O. I +T repredents the state of each trucks hips. represents the forth of cubic yards that is delivered. of XSTYT this represents the average cubic yarms that is

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1st truck X yd3 sand; 5 trips to Job Site 2nd truck y yd3 sand; T trips to job site x S+ yT

a) S+T is the number of trips S+T both trucks made to the yes Site.

b) x + y is The amount of sand, in yd3, that both trucks can make in one trip.

2) XS gives us how much sand Truck 1 delivers to job sites. and (yd3) yT gives us how much sand (yd3) truck 2 delivers totally. so (C) gives us now much sand was delivered to the job site.

a) xS+yT gives up the total amount of sand divided by the number of trips. Thus would be the average amount of sand delivered in yd3 per trip