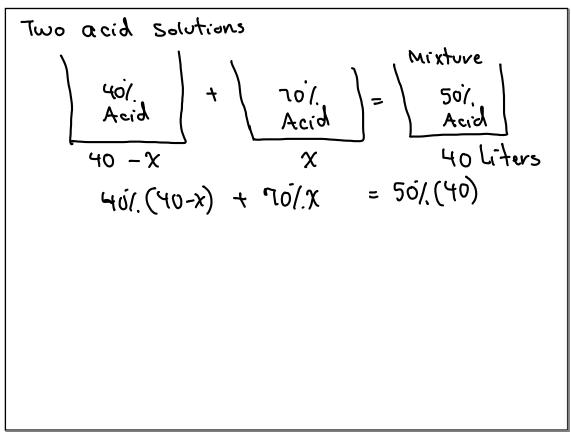


Mixtures:
Type B

$$\ddagger 3/16.$$
 $\ddagger 576$ = $\ddagger 3.50 \text{ /lb.}$
 $20-\chi$ χ $2016.$
we need $2016.$ of mixture
 $3(20-\chi)$ $\ddagger 5\chi = 3.50(20)$
Solve for χ .



we have unlimited supply of two
different brand of Coffee. \$7/16.
$$\xi$$
\$4/16.
we need 21 pounds at \$5/16.
Type B Mix
\$7 + \$94 = \$5
X 16. 21-X 21
7x + 4(21-X) = 5(21)
7x + 89-9X = 105 $X=7$
 $3x + 89 = 105$
 $3x + 89 = 105$
 $3x = 105 - 89$ 7 16. ξ \$1/16.
14 16. ξ \$1/16.

I need 40 lb. of candy
$$@$$
 \$4/lb.
we have unlimited supply of two types of
Candy. One $@$ \$3/lb. and another one $@$ \$5/lb.
How many Pounds of each?
 $$3 + $5 = $4 & $20 lb. of each$
 $$7 lb. & $40 lb. & $6 each$
 $$7 lb. & $40 lb. & $6 each$
 $$3x + 5(40-x) = 4(40) & $-2x + 200 = 160 \\ -2x = 160 - 200 \\ -2x = -40 \\ x = 20 \\ \end{bmatrix}$

We have two Supplies of alcohol Solutions.
One is pure alchol
$$\dot{\epsilon}$$
 the other one is 40%.
alcohol. we need 50 liters of 70% alcohol.
How many liters of each?
 100% + 10% = 70% .
 $x = 50-x = 50$ p $60x=3500-2000$
 $100\% + 40\% (50-x) = 70\% (50)$
 $100x + 40(50-x) = 70\% (50)$
 $x = \frac{1500}{60}$
 $x = \frac{1500}{60}$

we need TO liters of 30% acid.
we have unlimited supply of 25% acid?
60% acid how many liters of each?
60%
$$4^{25}$$
 = 30% 60% acid?
60% 4^{25} = 30% 60% acid?
60% 30^{25} = 30% 60% acid?
60% 30^{25} = 30% 60% acid?
60% 4^{25} (TO -X) = 30% 70
 50^{25} = 2100 35^{25} = 2100
 50^{25} = 2100 $X = 10$

we need 30 gallons of 20% alcohol.
we have unlimited supply of 40% & 10% alcohol.
How many gallons of each?

$$40\%$$
, 4 10% , $=$ 20% .
 30 ga. $(30-x)$ ga. 30 ga. $730x = 300$
 40% , x + 10% , $(30-x) = 20\%$. (30)
 $40x$ + 10% , $(30-x) = 20\%$. (30)
 $40x$ + 10% , $(30-x) = 20\%$. (30)
 $40x$ + 10% , $(30-x) = 20\%$. (30)
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 $40x$ + 10% , $(30-x) = 20\%$. (30)
 $40x$ + 10% , $(30-x) = 20\%$. (30)
 40% + 300 - $10x = 600$
 $30x = 600$ - 300
 20 gallons of (0%) .

Find how many liters of each using the drawing
below?

$$40/. + 70/. = 50/. + 16/. = 50/. + 160/. + 10/. = 50/. + 160/. + 10/. +$$