At a school concert, the total value of tickets sold was \$1,506. Student tickets sold for \$6 and each adult ticketf sold for \$9 each. The number of adult tickets sold was five less than three times the number of student tickets sold. How many student tickets and how many adult tickets were sold?

Туре	$Number \cdot Value(\$) = Total Value(\$)$	
Student		
Adult		
		\$1506

A whale-watching ship had 40 paying passengers on board. The total collection from tickets was \$1,196. Full-fare passenger paid \$32 each and reduced-fare passenger paid \$26 each. How may full-fare passengers and how many reduced-rate fare passengers were on the ship?

Henning is mixing raisins and nuts to make 10 pounds of trail mix. Raisins cost \$2 a pound and nuts cost \$6 a pound. If Henning wants his cost of the trail mix to be \$5.20 a pound, how many pounds of raisins and how many pounds of nuts should he use?

2165 Raisins 8165 Nats

Type	pounds	Price per pound	total value
Passins	×	3	2×
Nuts	10-X	#6	6(10-X)
Trail mix	10	5.20	10(5.20)

$$2x+6(10-x)=52$$
  
 $2x+60-6x=52$ 

Mixed Juice

Sole 28-X

325

2600

4500

3% × 5% 20000-×

20000

3.2% = x 3.2 = 3000 - X

Becca wants to make mix juice and soda punch. She can buy fruit juice for \$3 a gallon and soda for \$4 a gallon. If she wants to make 28 gallons of punch at a cost of \$3.25 a gallon, how many gallons of fruit juice and how many gallons of soda should she buy?

The many gallons of sould she buy? 3x + 4(28-x) = 91 3x + 112 - 4x = 91 -x + 112 = 91 -x = -21 -x = -21 -x = -21

Stacey has \$20,000 to weest in two different was accounts. One account pays interest at 3% per year and the other account pays 5% per year. How much should she invest in each account if she want to earn 4.5% interest per year on the total amount?

 $.03 \times + .05(20000 - \times) = .045(20,000)$   $.03 \times + 1000 - .05 \times = 900$   $-.02 \times = -100$   $2 \times = 10000$   $\times = 5000 \times 5/0$ Marco has \$8000 to save or his daughter's college education. He wants to

Marco has \$8000 to save or his daughter's college education. He wants to divide it between one account that pays 3.2% interest and the other account pays 8% interest per year. How much should he invest in each account if he wants the interest on the total investment to be 6.5%.

 $.032 \times +.08(8000 - x) = .065(8000)$   $.032 \times +640 - .08 \times = 520$   $32 \times +640000 - 60 \times = 520000$   $-48 \times = -120000$   $\times = 2500 & 3.2\%$ 

\$5500 C 810

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