PRESENTED BY slb

RATIONAL NUMBER OPERATIONS

EXTENDED LEARNING

1. The Houston Texans allow fans to purchase ticket packages for groups of ten that include game tickets and sideline passes. Your family decides to purchase a package for $1,400. Your family will use 2/5 of the tickets, and family friends will use the rest. How much money is owed to you by family friends?

2. Fans can purchase all of their favorite gear at the Houston Texans Team Shop at NRG Stadium. If each member of a family of four purchases a t-shirt for $27.99, a key chain for $5.99, and pays $2.31 in sales tax, how much will the family pay?

3. Four Houston Texans Cheerleaders are proud University of Houston Cougars. In 2021, the average yearly tuition and fees for the University of Houston was $9,457 for in-state students. Consider your parents have told you they plan to pay 5/8 of your tuition and fees for four years of college.

a. How much money would you need to save to pay the rest of your tuition and fees for four years of school?

b. If you save every month for 6 years, how much do you need to save per month?

STATS CHALLENGE

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ENRICHMENT

Many fans purchase Texans gear and other products to wear on gameday from shop.houstontexans.com. If you won a $500 online gift certificate to the Houston Texans Official Online Store, how would you spend the certificate? Remember, you will need to pay sales tax on your purchase. Multiply your pre-tax total by 0.0825 to calculate 8.25% sales tax.

Problem-Solving Board	
SEE: What is the question asking me to do? What do I know? What do I need to know?	**PLAN:** Estimate:
DO: (Solve) Solve the problem. Answer:	**REFLECT:** My solution is reasonable because

Questions to Ask Myself	
SEE: What do I know? What do I need to know? Have I seen a similar or related problem?	**PLAN:** Would making the numbers simpler or working backwards help? What would a diagram of the problem look like? How will I use each relevant value?
DO: (Solve) Am I following the order of operations that match the problem's context? Am I using correct computation? Do the labels of the values make sense with each step?	**REFLECT:** Have I checked my computations? Is my answer reasonable? Is there another way to solve the problem and does this other way give the same solution?