

Unit 1B Study Guide: Operations with Rational Numbers

8. Mary's has \$400 in the bank. She made a deposit of \$320.75, and then she withdrew \$30.25 for gasoline. She paid a bill for \$253. What is her new account balance?



9. Janice left the mall with \$13.42. She spent \$42.89 on a pair of jeans, \$7.23 on lunch, \$17.45 on a shirt, and \$28.93 on a purse. How much money did Janice start with?

13:42	56.31	43.54	80.99	
+42.89	+ 7.23	+ 17.45	+28.93	5109.92
56.31	63.24	80.99	109.92	

10. Simplify the following expressions.



13. Christopher collected  ${}^{15\frac{2}{3}}$  bins of glass bottles to recycle. Taylor collected  ${}^{1\frac{1}{5}}$  times as many bins as Christopher. How many bins of bottles did Taylor collect?  $(15\frac{2}{3})(1\frac{1}{5}) = (\frac{47}{3})(\frac{6}{5}) = \underbrace{\frac{282}{15}}_{15} \text{ or } 18\frac{1}{5}$  or  $18\frac{1}{5}$ 

14. It took Margaret 2 hours and 14 minutes to clean her room (including her closet). Write the time it took Margaret to clean her room as a mixed number in simplest form and as a decimal.

0 minutes Simplest Form