

Unit 2 Rational Numbers Assessment

STUDY GUIDE

1. Bart ate $\frac{3}{5}$ of a Subway sandwich. Lisa ate $\frac{2}{3}$ of her sandwich. What fraction of a sandwich did they eat in total?

2. Sarah built $\frac{3}{4}$ of a scarecrow for her autumn decorations. Valerie came over and worked on $\frac{1}{5}$ of the scarecrow while Sarah was away at work. They finished the scarecrow together when Sarah came home from work. What fraction of the scarecrow did they build together?

$$5 \cdot \frac{3}{4} + \frac{1}{5} \cdot \frac{4}{5} = \frac{19}{20}$$
 already $\frac{20}{20} - \frac{19}{20} = \frac{1}{20}$ built built $\frac{15}{20} + \frac{4}{20} = \frac{19}{20}$ already $\frac{20}{10} = \frac{19}{20} = \frac{1}{20}$ built $\frac{15}{20} + \frac{4}{20} = \frac{19}{20}$ already $\frac{1}{10} = \frac{19}{20} = \frac{1}{20} = \frac{1}{20}$ built $\frac{15}{20} + \frac{4}{20} = \frac{19}{20} = \frac{1}{20} = \frac{1$

3. Kristen had \$204.45 in her account on Wednesday. She deposited \$32.18 on Thursday, then withdrew \$97.85 on Friday to go out with some friends. How much did Kristen have left in her account?

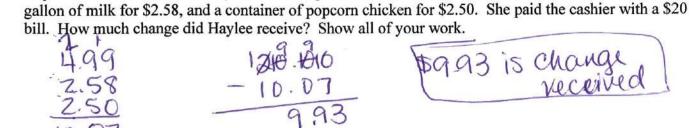
4. A board is $25\frac{1}{5}$ -feet long. Into how many $1\frac{3}{5}$ -foot pieces can it be cut?

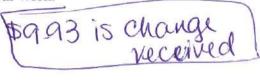
$$25\frac{1}{5} \div 1\frac{3}{5}$$
 $7 \frac{126}{5} \cdot \frac{5}{8} = \frac{|26|}{8} = \frac{|26|}{5} = \frac{|5|}{8} \text{ or } \frac{|5|}{4}$

5. Karen purchased a bike on sale. The original price was \$180. The sale price was 2/3 of the original price. How much did Karen pay for the bike? Show all your work.

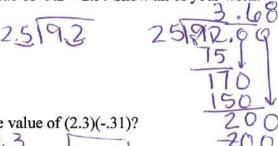
$$\frac{2}{3}$$
 of 180 $\frac{2}{13}$. $\frac{180}{1}$ = $\frac{120}{1}$ = $\frac{$120 \text{ on Sale}}{1}$

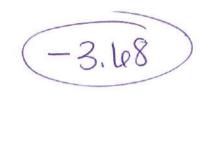
6. Michael bought a tablet from a friend for \$58. Jadyn spent 2 ½ times as much buying her tablet from the store. How much did she spend? Show all your work.





8. What is the value of $-9.2 \div 2.5$? Show all of your work.



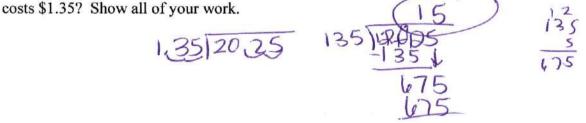


9. A) What is the value of (2.3)(-.31)?

72	
0.0	-717
.51	0110
, 23	

B) What could you multiply your answer in part A by to make your product larger than 10? Explain your reasoning. When your your it was to be negative. Ex: -20 10. Wyatt has \$20.25 in his account at school. How many school breakfasts could he buy if each breakfast

7. Haylee went to Wal-mart to buy random things. She bought a CD out of the bargain bin for \$4.99, a



11. A small airplane is 2/3 of a mile above sea level. A bird is 7/15 of a mile below the plane. What fraction of a mile is the bird away from sea level? Show all of your work.

13.
$$1\frac{2}{3} \cdot \frac{-3\frac{3}{5}}{5} =$$

$$\frac{5}{3} \cdot \frac{-18}{5} = \frac{-90}{15} \div 5 - \frac{18}{3} \div 3 - \frac{6}{1} = 6$$