

|  | Example:$\begin{array}{llll} (4 / 7)(3 / 5)=12 / 35 & (2 / 3)(1 / 5)=2 / 15 & (3 / 4)(2 / 3)=6 / 12=1 / 2 & (4 / 9)(3 / 8)=12 / 72=1 / 6 \\ 21 / 3 \times 13 / 4=41 / 12 & -31 / 3 \times-27 / 10=9 & (4 / 7) \times-3 \times(1 / 2)=-6 / 7 & -2\left(-1 \frac{1}{4}\right)=2 \frac{1}{2} \end{array} \quad(2 / 3)^{2}=4 / 9 ~ \$$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 20 | Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Explain the card game activity and then let students find a partner and give out decks of cards and worksheets. Walk around the room while they are doing the activity to check for understanding. If students finish activity, they can begin working on homework assignment. |  |  |  |
| 10 | Review (wrap up and transition to next activity): Have each pair of students share one of the problems that they found interesting or difficult from the card activity. |  |  |  |
| Formative Assessment: (linked to objectives) <br> Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc. <br> Walking around room while the students are working on examples and during the activity. Checking for understanding based on the work they are showing. Consideration for Back-up Plan: <br> If students are not ready to multiply fractions, we will review multiplying integers focusing on positive and negative signs. Students can go onto google classroom and watch a video if necessary or work on practice problems. |  | Summative Assessment (lin End of lesson: Students will be asses on the worksheet for <br> If applicable- overall un | d back to objectiv based on the activity. <br> hapter, concept, | they showed |
| Reflection (What went well? What did the students learn? How do you know? What changes would you make?): <br> Overall, I think the lesson went very well. The students seemed to have enjoyed the card game activity. The one thing I would do differently if I were to teach this lesson again is fully explain the game and demonstrate before passing out the worksheets and decks of cards. The students seemed distracted and not very attentive to the instructions once they had the cards. I would also consider putting the instructions on top of the worksheet for them to refer back to. For the most part it went well, but there was some confusion about the activity. |  |  |  |  |

## Instructions for card game:

1. In groups of 2, split the deck of cards in half
2. Each person will flip over two cards to make a fraction
a. Red card $\rightarrow$ positive
b. Black card $\rightarrow$ negative
3. Multiply the two fractions (do six of these)
4. Each person will flip over three cards to make a mixed number
a. The first card is the whole number the second and third will be the fraction
b. Red card $\rightarrow$ positive
c. Black card $\rightarrow$ negative
5. Multiply the mixed numbers (do six of these as well)
$\qquad$

## Multiplying Fractions Card Game

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. 


6.


9.

10.

11.

12.

$\qquad$

## Multiplying Rational Numbers

1. $\frac{1}{8} \times \frac{5}{6}=$
2. $6.4 \times 5.9=$
3. $\frac{3}{7} \times \frac{4}{5}=$
4. $9.2 \times 1.6=$
5. $5 \frac{3}{8} \times \frac{8}{9}=$
6. $4.21 \times 6.1=$
7. $11.4 \times 7.5=$
8. $\frac{1}{2} \times 2 \frac{6}{7}=$
9. $2.6 \times 3.72=$
10. $\frac{4}{5} \times 4 \frac{5}{9}=$
11. $14.84 \times 2.84=$
12. $3 \frac{1}{3} \times 2 \frac{1}{5}=$
13. $9.92 \times 4.54=$
14. $1 \frac{3}{8} \times 3 \frac{1}{3}=$
15. $(-1.5)^{2}$
16. $\left(2 \frac{1}{7}\right)^{2}=$
17. $3.8 \times 0.65-1.4=$
18. $-3 \frac{2}{5}+\frac{2}{10} \times \frac{5}{6}=$
19. A baker needs to make 8 batches of cookies for a party. If each batch requires $23 / 4$ cups of flour, how many cups will he need?
20. The Science Club went to a history museum. It costs $\$ 7.25$ for an admission ticket. If 90 members went to the museum, what would the total cost be?
