



Student Name: _____

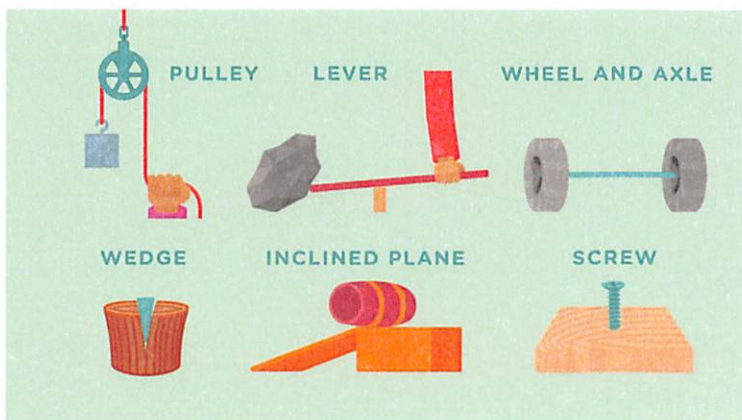
The Geography of War

During your study of the American Revolution, you learned some of the major events that led to the defeat of the British. Both the American and British forces attempted to use the physical geography of each battle site to help them win the war. The Battles of Lexington and Concord in April 1775 are significant battles that took place at the beginning of the war. The Battle of Saratoga marked the turning point in the Revolutionary War. Yorktown was the last major battle of the war. During each of these battles, each force used the physical features of the area where the battle occurred to help them win.

Your Task: Pretend you are a newspaper reporter from the battlefield. Tell how the colonists used their knowledge of the land around **one** of the battle sites listed below to their benefit during the battle against the British on the "Reporting From the Battlefield" writing paper.

- The Battles of Lexington and Concord – Include details about the stone fences, hiding in the woods, and highest ground in the area.
- The Battle of Saratoga – Include details about the thick mud, deep ravines, terrain, and weather.
- The Battle of Yorktown – Include details about surrounding the British and trapping them.

Geography and knowledge of simple machines helped soldiers on the battlefield. Cannons had wheels and axles that made them easy to pull. Pulley systems were used to lift heavy metal. Levers were important when objects were thrown over high walls and forts. These are just a few examples of how simple machines helped soldiers on the battlefield.



Simple machines make work easier. They have few or no moving parts and they work by changing the direction of a force or the amount of force needed to do something.

The six simple machines are the wedge, screw, lever, pulley, inclined plane and the wheel and axle. They all make work easier.

Your Task: Create a [foldable flipbook](#) of 3 simple machines. Write a simple machine on each flap. Be sure to include examples of each machine and how that type of machine can make our lives easier.



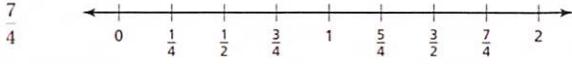
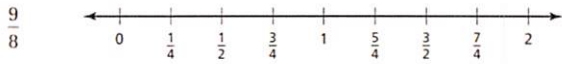
Math Warm-Up

Review the below information prior to practicing adding and subtracting fractions and converting mixed numbers

<p>Key Concept and Vocabulary</p> <p>Add the numerators</p> $\frac{2}{5} + \frac{1}{5} = \frac{2+1}{5} = \frac{3}{5}$ <p>Add numerators</p> <p>Like fractions have the same denominator</p>	<p>Key Concept and Vocabulary</p> <p>Proper fractions are less than 1</p> <p>Improper Fractions</p> <p>Improper fractions are 1 or more</p>
<p>Key Concept and Vocabulary</p> <p>Subtract the numerators</p> $\frac{2}{5} - \frac{1}{5} = \frac{2-1}{5} = \frac{1}{5}$ <p>Subtract numerators</p> <p>Like fractions have the same denominator</p>	<p>Modeling Mixed Numbers and Improper Fractions aka - visualizing Mixed Numbers and Improper Fractions</p> <p>1) $\frac{5}{3} = ?$</p> <p>2) $\frac{11}{4} = ?$</p>
<p>Introducing...</p> <p>Improper fractions & mixed numbers</p>	

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Your Task: During the Boston Tea Party, approximately 60 colonies protested to tax on tea by dressing as Native Americans and they dumped tea in the harbor. Your job is to find out the amount of tea that was in four of the crates that were dumped. Please show your work.

Crate 1	Crate 2
<p>The following amounts of tea were found in crate 1. How many pounds of tea was in this crate? _____</p> <div style="text-align: center;">  </div>	<p>The following amounts of tea were found in crate 2. How many pounds of tea was in this crate? _____</p> <div style="text-align: center;">  </div>
Crate 3	Crate 4
<p>$\frac{7}{4}$ of the tea found in crate 3 was black tea. What is $\frac{7}{4}$ as a mixed number? Circle where $\frac{7}{4}$ is on the number line and then write $\frac{7}{4}$ as a mixed number.</p> <div style="text-align: center;">  </div>	<p>$\frac{9}{8}$ of the tea bags found in crate 4 were forms of black tea. What is $\frac{9}{8}$ as a mixed number? Circle where $\frac{9}{8}$ is on the number line and then write $\frac{9}{8}$ as a mixed number.</p> <div style="text-align: center;">  </div>

Math Into Action

Practice your skills with mixed numbers and improper fractions. (If you want to play this game multiple times, copy the tic-tac-toe boards onto your own paper and use the different below boards as your templates.

- Cut out the tic-tac-toe cards.
- Draw a tic-tac-toe game board.
- The youngest player will go first.
- The first player pulls a card. The player solves the problem by converting the mixed number to an improper fraction or converting the improper fraction to a mixed number.
- The player turns over the answer key to check to see if they converted the problem correctly.
- If so, the player marks an X or O over the space.
- The next player picks another space on the game board and follows the same steps that the first player followed.
- The players continue to take turns solving problems and marking X's and O's on the game board.
- The first player to get 3 in a row is the winner. If no one is able to get three in a row, the game results in a tie.

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Tic-Tac-Toe Fraction Cards

Cut out the tic-tac-toe cards below.

$22/7$	$9/2$	$11/3$	$31/5$
$21/5$	$28/5$	$19/5$	$25/3$
$14/5$	$35/4$	$21/4$	$22/3$
$6 \frac{2}{5}$	$8 \frac{4}{5}$	$4 \frac{3}{10}$	$9 \frac{1}{8}$
$2 \frac{3}{5}$	$4 \frac{1}{3}$	$7 \frac{3}{8}$	$5 \frac{5}{8}$
$2 \frac{1}{2}$	$3 \frac{5}{8}$	$8 \frac{7}{10}$	$2 \frac{3}{4}$
$11/7$	$11/4$	$35/4$	$17/3$
$9/4$	$17/4$	$83/8$	$29/4$
$65/6$	$25/3$	$33/8$	$57/8$

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Answer key for tic-tac-toe cards below.

$22/7 = 3 \frac{1}{7}$	$9/2 = 4 \frac{1}{2}$	$11/3 = 3 \frac{2}{3}$	$31/5 = 6 \frac{1}{5}$
$21/5 = 4 \frac{1}{5}$	$28/5 = 5 \frac{3}{5}$	$19/5 = 3 \frac{4}{5}$	$25/3 = 8 \frac{1}{3}$
$14/5 = 2 \frac{4}{5}$	$35/4 = 8 \frac{3}{4}$	$21/4 = 5 \frac{1}{4}$	$22/3 = 7 \frac{1}{3}$
$6 \frac{2}{5} = 32/5$	$8 \frac{4}{5} = 44/5$	$4 \frac{3}{10} = 43/10$	$9 \frac{1}{8} = 73/8$
$2 \frac{3}{5} = 13/5$	$4 \frac{1}{3} = 13/3$	$7 \frac{3}{8} = 59/8$	$5 \frac{5}{8} = 45/8$
$2 \frac{1}{2} = 5/2$	$3 \frac{5}{8} = 29/8$	$8 \frac{7}{10} = 87/10$	$2 \frac{3}{4} = 11/4$
$11/7 = 1 \frac{4}{7}$	$11/4 = 2 \frac{3}{4}$	$35/4 = 8 \frac{3}{4}$	$17/3 = 5 \frac{2}{3}$
$9/4 = 2 \frac{1}{4}$	$17/4 = 4 \frac{1}{4}$	$83/8 = 10 \frac{3}{8}$	$29/4 = 7 \frac{1}{4}$
$65/6 = 10 \frac{5}{6}$	$25/3 = 8 \frac{1}{3}$	$33/8 = 4 \frac{1}{8}$	$57/8 = 7 \frac{1}{8}$

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Optional Open Middle Math Challenge with Family

Can you and your family members find more than one solution to solve this problem? You may want to cut the numbers 1-9 apart to help you solve this problem.

	1	2	3	4
5	6	7	8	9

Directions: Using the digits 1 to 9 at most one time each, place a digit in each box to create a true statement.

$$\frac{\square}{\square} < \frac{\square}{\square} < \frac{\square}{\square}$$

Hint

How does the numerator change when the value increases/decreases? How does the denominator change when the value increases/decreases?

Reporting From the Battlefield

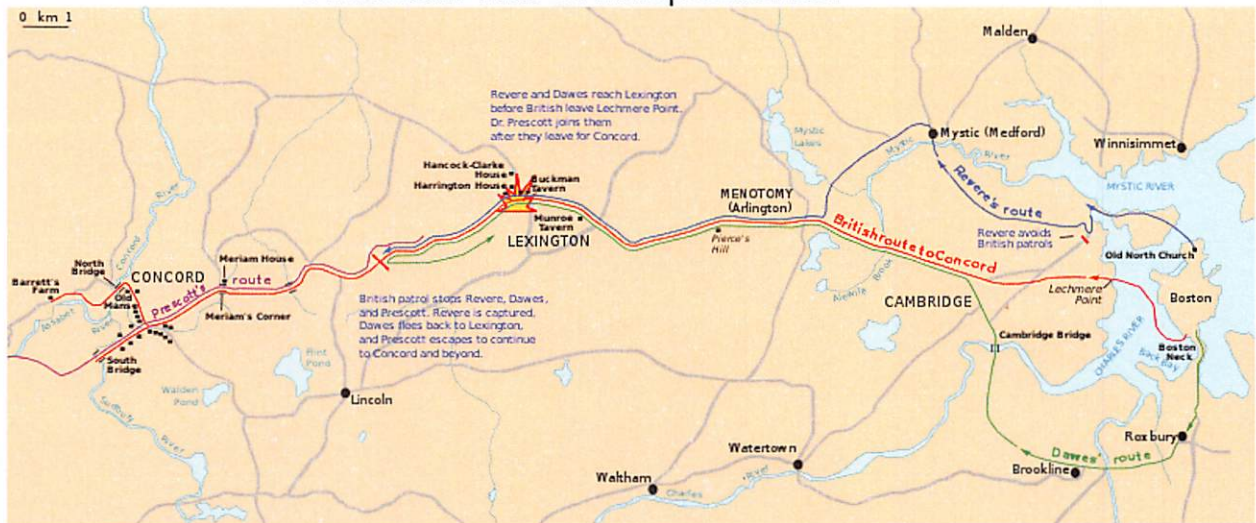
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Remember: You are a newspaper reporter reporting from **one** of the battlefields. Write in complete sentences and apply the rules of capitalization and punctuation.

Battles of Lexington and Concord

-Known for the 'shot heard 'round the world' and marked the start of the American War of Independence.



Reporting From the Battlefield

Battle of Saratoga

Two battles fought 18 days apart that became the turning point of the American Revolution when the Continental Army defeated the superior British army and persuaded the French to help them defeat the British.



The British surrender (BritishBattles.com)

Battle of Yorktown

Final battle of the American Revolution where the French helped the Continental Army stop the British by land and sea.



American troops storming a British redoubt:

Battle of Yorktown 28th September to 19th October 1781 in the American Revolutionary War

