

# Math Homework Boxes

Monday	Tuesday						
<p>1. Write an expression for the following statements: five times the quotient of twelve and four</p> <p>the product of six and four increased by three</p> <p>2. At a bake sale, Jonah sold 4 cakes for \$8 each and 36 muffins for \$3 each. What was the total amount of dollars that Jonah received from sales? <b>Write an algebraic expression and solve.</b></p> <p>3. <math>546 \times 36 =</math></p>	<p>1. <math>4785 \div 79 =</math></p> <p>2. <math>34 \times (36 \div 6) - 12 =</math></p> <p>3. <b>Write an expression</b> for how many apples Dharshini has if she picked 30 apples and put them equally into 3 baskets. Then she ate two of the apples in a basket.</p>						
Wednesday	Thursday						
<p>1. On Saturday, 16 friends go ice skating. Altogether, they pay \$104.00 for admission. They share the cost equally. How much does each person pay?</p> <p>2. Simplify the following fractions:</p> <table style="margin-left: 20px; border: none;"> <tr> <td style="text-align: center;"><math>\frac{24}{36}</math></td> <td style="text-align: center;"><math>\frac{18}{63}</math></td> <td style="text-align: center;"><math>\frac{28}{42}</math></td> <td style="text-align: center;"><math>\frac{13}{39}</math></td> </tr> </table> <p>3. Compare <math>12 \times 6 + 3</math> and <math>12 \times (6 + 3)</math>. Are they equal? Prove your answer.</p> <p>4. Write the following number in <b>standard form</b>:</p> <p><math>800,000 + 10,000 + 400 + 20 + 6 =</math></p>	$\frac{24}{36}$	$\frac{18}{63}$	$\frac{28}{42}$	$\frac{13}{39}$	<p>1. Solve and simplify:</p> <table style="margin-left: 20px; border: none;"> <tr> <td style="text-align: center;"><math>\frac{1}{4} \times \frac{2}{3} =</math></td> <td style="text-align: center;"><math>\frac{2}{5} \times \frac{3}{4} = ?</math></td> </tr> </table> <p>2. Are the products in #1 bigger or smaller than the factors? Why is that?</p> <p>3. Write in simplest form:</p> <ol style="list-style-type: none"> <li>a. <math>2/8 =</math></li> <li>b. <math>24/60 =</math></li> <li>c. <math>30/42 =</math></li> </ol>	$\frac{1}{4} \times \frac{2}{3} =$	$\frac{2}{5} \times \frac{3}{4} = ?$
$\frac{24}{36}$	$\frac{18}{63}$	$\frac{28}{42}$	$\frac{13}{39}$				
$\frac{1}{4} \times \frac{2}{3} =$	$\frac{2}{5} \times \frac{3}{4} = ?$						

### Monday

1. **True or False:** A baseball and a basketball would both have the same momentum if rolled down a hill with equal friction.
2. Draw at least **5 real world examples** of forces you see on the playground each day. Be sure to label them.

### Tuesday

1. In what phase of matter are the particles closest together?  
a. solid      b. liquid      c. gas
2. Which phase of matter can change its volume depending on the container it is in?  
a. solid  
b. liquid  
c. gas
3. True or False: there are three states of matter.

### Wednesday

1. A soccer ball will continue to move until acted on by another force. This is true because the ball has  
-----.
2. I am a state of matter: my molecules are arranged in a tight pattern. I must be a  
-----.  
a. Gas  
b. Solid  
c. Liquid  
d. Plasma
3. When can a solid become a liquid?  
a) when heat is taken away  
b) when heat is added  
c) when it's broken into pieces  
d) None of the above

### Thursday

1. I am a state of matter: my molecules are jumping all over the place. I must be a  
-----.  
a. Gas  
b. Solid  
c. Liquid  
d. Frog
2. A force is a \_\_\_\_\_ or a \_\_\_\_\_.
3. Draw a motion graph representing acceleration in red and constant speed in blue.

