

Math 6 Unit 3

Unit Rates and Percentages

Extra Practice Problems KEY

<p>1.Circle the larger unit of measure: kilometer or yard</p>	<p>2.Circle the larger unit of measure: quart or gallon</p>															
<p>3.Mitchell brings 4 quarts of punch to a party. How many cups is that? (4 cups = 1 quart)</p> <p>16 cups</p>	<p>4.Jada brings ten 16 ounce packages of M&M's to school for a science lab. How many pounds is that? (16 ounces = 1 pound)</p> <table border="1"><thead><tr><th>oz</th><th>lbs</th></tr></thead><tbody><tr><td>16</td><td>1</td></tr><tr><td>160</td><td>10</td></tr></tbody></table> <p>10 pounds</p>	oz	lbs	16	1	160	10									
oz	lbs															
16	1															
160	10															
<p>5.A cheetah can run 120km per hour. If you were driving 100 miles per hour, who is faster you or the cheetah?</p> <table border="1"><thead><tr><th>miles</th><th>km</th></tr></thead><tbody><tr><td>75</td><td>120</td></tr><tr><td></td><td>1.6</td></tr></tbody></table> <p>cheetah runs 75 miles per hour car goes 100 miles per hour car faster (cheetah is impressive)</p>	miles	km	75	120		1.6	<p>6.The Empire State Building is 381 meters tall. The One World Trade Center is 1776 feet tall. Which is taller? (1 meter \approx 3 feet)</p> <table border="1"><thead><tr><th>feet</th><th>meter</th></tr></thead><tbody><tr><td>1776</td><td>592</td></tr><tr><td></td><td>3</td></tr></tbody></table> <p>Empire State Building is 381 meters tall One World Trade Center is 592 meters tall One World Trade Center</p>	feet	meter	1776	592		3			
miles	km															
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<p>7.If 15 books is 25% of the classroom library. Draw a double number line or tape diagram to show 5%, 50%, 75%, and 100%.</p> <table border="1"><thead><tr><th>3</th><th>15</th><th>30</th><th>45</th><th>60</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5%</td><td>25%</td><td>50%</td><td>75%</td><td>100%</td></tr></tbody></table>	3	15	30	45	60						5%	25%	50%	75%	100%	<p>8.The Rodriguez family went out to dinner and the bill came to \$35.85. They wanted to leave a 20% tip. What is the tip? What is the total amount the Rodriguez family spent at the restaurant?</p> <p>10% = \$3.58 20% = \$7.18 35.85 + 7.18 = \$ 43.03</p>
3	15	30	45	60												
5%	25%	50%	75%	100%												

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<p>9. While shopping at your favorite clothing store you spot a pair of shoes you love. You notice that they are on sale for 30% off. The cashier tells you the subtotal without tax is \$56. What was the original price?</p> <p>30% off means 70% paid 70% = \$56 10% = \$8 100% = \$80</p>	<p>10. Best Buy is selling a laptop computer for \$289 and is on sale for 20% off. You are comparing this same laptop to Amazon who will ship this laptop to you for free and is selling it for \$245. Which is provide you the cheapest price ?</p> <p>Best Buy 10% = \$28.90 20% = \$57.80 289 - 57.80 = \$ 231.20</p> <p>Amazon = \$245</p> <p>Best Buy cheaper</p>