

**Week 20 Homework (Honors)**

**Directions:** Solve the following problems. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. A candy store is selling 270 jelly beans for 500 cents. Label each statement true or false and SHOW YOUR WORK on how you figured this out:</p> <p>1- For \$1 you can buy at least 30 jelly beans. _____</p> <p>2- Each jelly bean under 5 cents. _____</p> <p>3- For \$4 you can buy more than 200 jelly beans. _____</p> <p>4- 25 jelly beans cost no more than 30 cents. _____</p>	<p>2. George is collecting cards. The cards he has are displayed in the table. <b>What is the ratio of basketball and baseball cards to total cards?</b></p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Type of Card</th> <th style="padding: 5px;">Number</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Football</td> <td style="padding: 5px;">20</td> </tr> <tr> <td style="padding: 5px;">Baseball</td> <td style="padding: 5px;">75</td> </tr> <tr> <td style="padding: 5px;">Basketball</td> <td style="padding: 5px;">13</td> </tr> <tr> <td style="padding: 5px;">Soccer</td> <td style="padding: 5px;">36</td> </tr> <tr> <td style="padding: 5px;">Game</td> <td style="padding: 5px;">64</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;"><b>Answer</b> _____</p>	Type of Card	Number	Football	20	Baseball	75	Basketball	13	Soccer	36	Game	64
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<p>3. During the week, Raul made \$15.43, \$9.32, and \$27. During the same week, he spent \$25.87, \$4.55, and \$50. What value represents the amount of money he had at the end of the week? What integer could be written for the following scenarios?</p> <p>Answer _____</p>	<p>4. Multiply.</p> <p>a) <math>(-24.65)(-0.41)</math> <span style="float: right;">Answer: _____</span></p> <p>b) <math>(68.23)(-5.3)=</math> <span style="float: right;">Answer: _____</span></p>												

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<p>1. Jordan shot 145 baskets in 15 minutes. Robert shot 254 baskets in 20 minutes. How many more baskets did Jordan shoot per minute to the nearest tenth?</p> <p>Answer: _____</p> <p>2. Divide:</p> <p>A) <math>5\frac{7}{8} \div 2\frac{1}{4} =</math> <span style="margin-left: 100px;">B) <math>12\frac{2}{9} \div 3\frac{1}{3} =</math></span></p> <p>Answer: _____ <span style="margin-left: 100px;">Answer: _____</span></p>	<p>3. Compare the number of triangles and circles. If the ratio remains the same, how many circles will there be if there are 36 triangles?</p> <p style="text-align: center;">▲▲▲▲●●●</p> <p>Answer: _____</p>																		
<p>4. The new floor in the school cafeteria is going to be constructed of square tiles that are either gray or white and in the pattern that appears below:</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> </tr> <tr> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> </tr> <tr> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> <td style="width: 20px; height: 20px; background-color: gray;"></td> <td style="width: 20px; height: 20px; background-color: white;"></td> </tr> </table> <p>A: What is the ratio of gray to white tiles? A: _____</p> <p>B: What is the ratio of white to total tiles? A: _____</p> <p>C: If the total cost of the white tiles is \$12.50, what is the unit cost per white tile?</p> <p>A: _____</p>																			<p>5. The ratio of the number of rabbits to the number of snakes at a zoo is 11:3. If there are 183 snakes at the zoo, how many rabbits are there at the zoo?</p> <p>Answer: _____</p> <p>6. A parking garage reserves 4 out of 11 parking spaces for cars with handicapped permits. If the garage has 9500 parking spaces in all, about how many are reserved for handicapped spaces?</p> <p>Answer: _____</p>

## Homework

**Directions:** Solve the following problems. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. A water cooler fills 1150 glasses in 45 minutes. How many glasses of water can the cooler fill per minute? Write a unit rate to the nearest tenth.  Answer: _____</p> <p>2. Divide the following fractions:</p> <p>a) <math>2\frac{2}{3} \div \frac{1}{3} =</math>    Answer: _____ _____</p> <p>b) <math>17\frac{1}{2} \div 1\frac{1}{4} =</math>    Answer: _____</p>	<p>3. The inventory of homes for sale at a local real estate office is shown below.</p> <ul style="list-style-type: none"><li>• 18 two-bedroom homes</li><li>• 70 three-bedroom homes</li><li>• 34 four-bedroom homes</li><li>• 66 five-bedroom homes.</li></ul> <p>What is the ratio of four and five-bedroom homes to all of the homes in the real estate office's inventory? Answer: _____</p>										
<p>4. Pilar listed the number of each type of movie he owns in the table below.</p> <p style="text-align: center;"><b>Pilar's Movies</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"><thead><tr><th>Type of Movie</th><th>Number</th></tr></thead><tbody><tr><td>science fiction</td><td>160</td></tr><tr><td>comedy</td><td>95</td></tr><tr><td>action/adventure</td><td>180</td></tr><tr><td>romance</td><td>55</td></tr></tbody></table> <p>What is the ratio of science fiction movies to all the other movies? Answer: _____</p>	Type of Movie	Number	science fiction	160	comedy	95	action/adventure	180	romance	55	<p>5. Kylan's ratio of strawberries to blueberries is 50 to 15. Kylan told Greg that if she had 90 blueberries that she would have 300 strawberries. Is Kylan's statement true? Explain your answer.  Answer: _____ _____ _____ _____</p>
Type of Movie	Number										
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<p>1. Which one is the better buy? (<b>find price per egg</b>):</p> <p>A) Great Value Eggs - \$1.88 for 12 eggs</p> <p>B) Sunny Meadow - \$3.20 for 18 eggs</p> <p>Answer: _____</p>	<p>2. One sock requires <math>\frac{5}{6}</math> yards of fabric to make. What is the maximum number of socks that can be made from <math>9\frac{3}{4}</math> yards of fabric? Answer: _____</p>
<p>3. Betty bought three pieces of wood in lengths of 42, 56, and 84 inches. She needs to cut the wood into pieces of equal length. What is the greatest possible length of the pieces? Answer: _____</p> <p>4. Use a number line to determine which symbol (&gt;, &lt;, =) would make the sentence true.</p> <div style="text-align: center; margin-top: 20px;"><math>\longleftarrow \qquad \qquad \qquad \longrightarrow</math> <input style="width: 50px; height: 15px; margin: 5px auto;" type="text"/></div>	<p>5. <b>Jack uses 1.6 liters of gasoline every 2 hours mowing lawns. How much gas does he use in 5.8 hours? SHOW YOUR WORK!!!</b></p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"><div>A) 4.64 liters</div><div>C) 92.8 liters</div></div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"><div>B) 9.28 liters</div><div>D) 928 liters</div></div>

-64.56

-64.65



