

Name: _____ Date: _____

Problem Solving - Percent Proportion

<p>The world population is estimated to exceed 9 billion by the year 2050. Use the circle graph to solve problems 1-4.</p>	<p style="text-align: center;">Estimated 2050 World Population</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <caption>Estimated 2050 World Population by Continent</caption> <thead> <tr> <th>Continent</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Asia</td> <td>59%</td> </tr> <tr> <td>Africa</td> <td>20%</td> </tr> <tr> <td>North America</td> <td>7.9%</td> </tr> <tr> <td>Europe</td> <td>7.1%</td> </tr> <tr> <td>South America</td> <td>5.3%</td> </tr> <tr> <td>Other</td> <td>0.7%</td> </tr> </tbody> </table>	Continent	Percentage	Asia	59%	Africa	20%	North America	7.9%	Europe	7.1%	South America	5.3%	Other	0.7%
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<p>1. What is the estimated population of Africa in the year 2050?</p>	<p>2. Which continent is estimated to have more than 5.31 billion people by the year 2050?</p>														
<p>3. In the year 2002, the world population was estimated at 6 billion people. Based on research from the World Bank, about 20% lived on less than \$1 per day. How many people lived on less than \$1 per day?</p>	<p>4. What is the combined estimated population for North and South America by the year 2050?</p>														
<p>5. The student population at King Middle School is 52% female. The total student population is 1225 students. How many boys go to King Middle School?</p> <p style="margin-left: 20px;">A. 538 boys B. 588 boys C. 637 boys D. 1173 boys</p>	<p>6. There are 245 students in the seventh grade. If 40% of them ride the bus to school, how many seventh graders do not ride the bus to school?</p> <p style="margin-left: 20px;">A. 98 students B. 147 students C. 185 students D. 205 students</p>														
<p>7. A half-cup of pancake mix has 5% of the total daily allowance of cholesterol. The total daily allowance of cholesterol is 300mg. How much cholesterol does a half-cup of pancake mix have?</p> <p style="margin-left: 20px;">A. 100mg B. 60mg C. 20mg D. 15mg</p>	<p>8. Carey needs \$45 to buy her mother a birthday present. She has saved 22% of the amount so far. How much more does she need?</p> <p style="margin-left: 20px;">A. \$35.10 B. \$44.01 C. \$23.00 D. \$9.90</p>														
<p>9. Craig just finished reading 120 pages of his history assignment. If the assignment is 125 pages, what percent has Craig read so far?</p>	<p>10. Hal's Sporting Goods had a 1-day sale. The original price of a mountain bike was \$325. On sale, it was \$276.25. What is the percent reduction for this sale?</p>														

<p>11. China's area is about 3.7 million square miles. It is on the continent of Asia, which has an area of about 17.2 million square miles. About what percent of the Asian continent does China cover?</p> <p>A. about 10%</p> <p>B. about 15%</p> <p>C. about 17%</p> <p>D. about 22%</p>	<p>12. In a survey, 46 people, which was 20% of those surveyed, chose red as their favorite color. How many people were surveyed?</p> <p>A. 66 people</p> <p>B. 230 people</p> <p>C. 460 people</p> <p>D. 920 people</p>
<p>13. Trevor and Michelle's restaurant bill comes to \$35.50. This is 20% of the amount in their bank account. How much money is in their bank account?</p>	<p>14. In the city of Bridgeport, 75% of the parks have tennis courts. If 18 parks have tennis courts, how many parks does Bridgeport have altogether?</p>
<p>15. In the 2001 season, the Chicago Cubs won 88 out of 162 games. What percent of games did the Cubs win?</p>	<p>16. In the Lakeview apartment complex, 35% of the apartments have one bedroom. If there are 63 one bedroom apartments, what is the total number of apartments at Lakeview?</p>
<p>17. In the 2000 season, quarterback Jeff Blake of the New Orleans Saints had 9 passes intercepted out of 302 attempts. What percent of Jeff Blake's passes were intercepted?</p>	<p>18. On Mars, an object weighs 38% as much as on Earth. How much would a person who weighs 150 pounds on Earth weigh on Mars?</p>
<p>19. In Las Vegas, Nevada, the skies are clear on 92% of the days. How many days in the month of June would you expect the skies to be clear in Las Vegas?</p>	<p>20. A recent poll shows that 65% of adults are in favor of increased funding for education. The number of adults surveyed for the poll was 140. How many of the adults surveyed were in favor of increased funding?</p>
<p>21. Mike's rosebush had 24 blooms in the first week of May. This was 80% as many blooms as Tammy's rosebush had during the same period. How many blooms did Tammy's rosebush have?</p>	<p>22. On a recent round of golf, Shana made par on 15 out of 18 holes. On what percent of holes did Shana <u>not</u> make par?</p>
<p>23. On the written portion of her driving test, Sara answered 84% of the questions correctly. If Sara answered 42 questions correctly, how many questions were on the driving test?</p>	<p>24. In a certain small town, 65% of the adults are college graduates. How many of the 240 adults living in the town are college graduates?</p>

