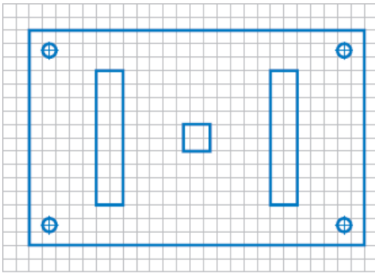


MTH 111 Chapter 7 Graded Homework
Answer Key

| <p>7.1 #10</p> <p>10. 1 in. to 8 ft</p> <p style="text-align: right;">$\frac{1}{96}$</p> | <p>7.1 #16</p> <p>16. 6 to $4\frac{2}{3}$</p> <p style="text-align: right;">$\frac{9}{7}$</p> | <p>7.1 #24</p> <p>24. $4\frac{4}{5} : 12$</p> <p style="text-align: right;">$\frac{2}{5}$</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|----------|----------|-------|-----|-------|-------|------|----------|-----|-------|--|-------|-------|-----|-------|-------|----------|-------|-----|--|--------|----------|--------|--|--|
| <p>7.1 #28</p> <p>28. $\frac{\\$36}{3 h}$</p> <p style="text-align: right;">$\\$12/h$</p> | <p>7.1 #48</p> <p>48. A structure has 3200 ft² of wall area (excluding windows) and 1800 ft² of window area. Find the ratio of wall area to window area.</p> <p style="text-align: right;">$\frac{7}{4}$</p> | <p>7.1 #76</p> <p>76. If 18 lb of potatoes are used in a recipe for 42 people, what is the ratio of lb/person?</p> <p style="text-align: right;">$\frac{3}{7}$</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>7.2 #12</p> <p>12. $\frac{125}{45}, \frac{25}{9}$</p> <p>Yes are equal</p> | <p>7.2 #24</p> <p>24. $\frac{4x}{9} = \frac{12}{7}$</p> <p style="text-align: right;">$x = \frac{27}{7}$</p> | <p>7.2 #52</p> <p>52. A farmer uses 150 lb of a chemical on a 40-acre field. How many pounds will he need for a 220-acre field? Assume the same rate of application.</p> <p>825 pounds</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>7.2 #74</p> <p>74. Jamal had a pay raise from \$2650 to \$2756 per month. Find the percent increase.</p> <p>4%</p> | <p>7.2 #100</p> <p>100. The following recipe for a chicken or turkey casserole serves 4: 3 cups chicken or turkey, 1 cup mushrooms, 1 cup cooked rice, and 1 cup blanched almonds. How much of each ingredient is needed to serve 10?</p> <p>Chicken or turkey: 7.5 cups Mushrooms: 2.5 cups Rice: 2.5 cups Almonds: 2.5 cups</p> | <p>7.3 #22</p>  <p>Side of square = 0.5 cm</p> <p>22. What are the dimensions of the rectangular holes?</p> <p>1 cm x 5 cm</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>7.4 #33-36</p> <table border="1" data-bbox="110 1575 522 1759"> <thead> <tr> <th></th> <th>F_1</th> <th>d_1</th> <th>F_2</th> <th>d_2</th> </tr> </thead> <tbody> <tr> <td>33.</td> <td>18 lb</td> <td>5 in.</td> <td>9 lb</td> <td>Answer ▾</td> </tr> <tr> <td>34.</td> <td>30 lb</td> <td></td> <td>70 lb</td> <td>8 in.</td> </tr> <tr> <td>35.</td> <td>40 lb</td> <td>9 in.</td> <td>Answer ▾</td> <td>3 in.</td> </tr> <tr> <td>36.</td> <td></td> <td>6.3 ft</td> <td>458.2 lb</td> <td>8.7 ft</td> </tr> </tbody> </table> <p>33. 10 in 34. $24/7$ in ~ 3.4 in 35. 120 lbs 36. 331.8 lb.</p> | | F_1 | d_1 | F_2 | d_2 | 33. | 18 lb | 5 in. | 9 lb | Answer ▾ | 34. | 30 lb | | 70 lb | 8 in. | 35. | 40 lb | 9 in. | Answer ▾ | 3 in. | 36. | | 6.3 ft | 458.2 lb | 8.7 ft | | |
| | F_1 | d_1 | F_2 | d_2 | | | | | | | | | | | | | | | | | | | | | | | |
| 33. | 18 lb | 5 in. | 9 lb | Answer ▾ | | | | | | | | | | | | | | | | | | | | | | | |
| 34. | 30 lb | | 70 lb | 8 in. | | | | | | | | | | | | | | | | | | | | | | | |
| 35. | 40 lb | 9 in. | Answer ▾ | 3 in. | | | | | | | | | | | | | | | | | | | | | | | |
| 36. | | 6.3 ft | 458.2 lb | 8.7 ft | | | | | | | | | | | | | | | | | | | | | | | |