

|                        |  |                     |   |        |                        |   |                |                |   |    |              |   |                     |
|------------------------|--|---------------------|---|--------|------------------------|---|----------------|----------------|---|----|--------------|---|---------------------|
| 1.                     | <p><b>Answer:</b><br/>30 days.</p> <p><b>Explanation:</b><br/>Before:</p> <table><tr><td>One day work</td><td>=</td><td>1 / 20</td></tr><tr><td>One man's one day work</td><td>=</td><td>1 / ( 20 * 75)</td></tr></table> <p>Now:</p> <table><tr><td>No. Of workers</td><td>=</td><td>50</td></tr><tr><td>One day work</td><td>=</td><td>50 * 1 / ( 20 * 75)</td></tr></table> <p>The total no. of days required to complete the work = <math>(75 * 20) / 50 = 30</math></p> | One day work        | = | 1 / 20 | One man's one day work | = | 1 / ( 20 * 75) | No. Of workers | = | 50 | One day work | = | 50 * 1 / ( 20 * 75) |
| One day work           | =  | 1 / 20              |   |        |                        |   |                |                |   |    |              |   |                     |
| One man's one day work | =  | 1 / ( 20 * 75)      |   |        |                        |   |                |                |   |    |              |   |                     |
| No. Of workers         | =  | 50                  |   |        |                        |   |                |                |   |    |              |   |                     |
| One day work           | =  | 50 * 1 / ( 20 * 75) |   |        |                        |   |                |                |   |    |              |   |                     |
| 2.                     | <p><b>Answer:</b><br/>5.3 %</p> <p><b>Explanation:</b><br/>He sells 950 grams of pulses and gains 50 grams.<br/>If he sells 100 grams of pulses then he will gain <math>(50 / 950) * 100 = 5.26</math></p>   |                     |   |        |                        |   |                |                |   |    |              |   |                     |
| 3.                     | <p><b>Answer:</b><br/>7 days</p>   |                     |   |        |                        |   |                |                |   |    |              |   |                     |
| 4.                     | <p><b>Answer:</b><br/>(c) 1</p> <p><b>Explanation:</b><br/>a percent of b : <math>(a/100) * b</math><br/>b percent of a : <math>(b/100) * a</math><br/>a percent of b divided by b percent of a : <math>((a / 100 ) * b) / (b/100) * a ) = 1</math></p>  |                     |   |        |                        |   |                |                |   |    |              |   |                     |
| 5.                     |  |                     |   |        |                        |   |                |                |   |    |              |   |                     |

|                              |  |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
|------------------------------|--|--------|--------|--------|-------|---------|----|----|----|----------------------------|----|----|----|-----------------------------|---|----|----|------------------------------|----|----|----|
|                              | <p><b>Answer:</b><br/>11 &amp; 9 apples per tree.</p> <p><b>Explanation:</b><br/>Let a, b, c, d &amp; e be the total number of apples bored per year in A, B, C, D &amp; E 's orchard. Given that <math>a + 1 = b + 3 = c - 1 = d + 3 = e - 6</math><br/>But the question is to find the number of apples bored per tree in C and D 's orchard. If is enough to consider <math>c - 1 = d + 3</math>.<br/>Since the number of trees in C's orchard is 11 and that of D's orchard is 13. Let x and y be the number of apples bored per tree in C &amp; d 's orchard respectively.<br/>Therefore <math>11x - 1 = 13y + 3</math><br/>By trial and error method, we get the value for x and y as 11 and 9</p> |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| 6.                           | <p><b>Answer:</b><br/>3.</p> <p><b>Explanation:</b><br/>Since inclusion of any male player will reject a female from the team. Since there should be four member in the team and only three males are available, the girl, n should included in the team always irrespective of others selection.</p>  |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| 7.                           | <p><b>Answer:</b> (c)</p>  |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| 8.                           | <p><b>Answer:</b><br/>(5).</p> <p><b>Explanation:</b><br/>Since every alternative letter starting from B of the English alphabet is written in small letter, the letters written in small letter are b, d, f...<br/>In the first two answers the letter E is written in both small &amp; capital letters, so they are not the correct answers. But in third and fourth answers the letter is written in small letter instead capital letter, so they are not the answers.</p>  |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| 9.                           | <p><b>Answer:</b><br/>(2)</p>  |        |        |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| 10.                          | <p><b>Answer:</b><br/>Sudhir had 39 cars, Arvind had 21 cars and Gauri had 12 cars.</p> <p><b>Explanation:</b></p> <table><tr><td></td><td>Sudhir</td><td>Arvind</td><td>Gauri</td></tr><tr><td>Finally</td><td>24</td><td>24</td><td>24</td></tr><tr><td>Before Gauri's transaction</td><td>12</td><td>12</td><td>48</td></tr><tr><td>Before Arvind's transaction</td><td>6</td><td>42</td><td>24</td></tr><tr><td>Before Sudhir' s transaction</td><td>39</td><td>21</td><td>12</td></tr></table>  |        | Sudhir | Arvind | Gauri | Finally | 24 | 24 | 24 | Before Gauri's transaction | 12 | 12 | 48 | Before Arvind's transaction | 6 | 42 | 24 | Before Sudhir' s transaction | 39 | 21 | 12 |
|                              | Sudhir   | Arvind | Gauri  |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| Finally                      | 24   | 24     | 24     |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| Before Gauri's transaction   | 12   | 12     | 48     |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| Before Arvind's transaction  | 6  | 42     | 24     |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |
| Before Sudhir' s transaction | 39   | 21     | 12     |        |       |         |    |    |    |                            |    |    |    |                             |   |    |    |                              |    |    |    |

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| 11. | <b>Answer :</b> (b)  |
| 12. | <p>1.One of the following is my secret word:AIM DUE MOD OAT TIE.With the list in front of you, if I were to tell you any one of my secret word, then you would be able to tell me the number of vowels in my secret word.Which is my secret word?</p> <p>Ans.TIE</p> |
| 13. | ( e ) The lower design represents half of the upper design   |
| 14. | ( d ) The arrangement is $(8 * 5) - (8 + 5)$ ; $(7 * 3) - (7 + 3)$ .....   |
| 15. | It is mentioned in the passage that India produced 4 million tones more then U.S and become first in the world . so, it is probably true that U.S. is the Second largest product of milk.  |