Percent Increase or Decrease Worksheet

Decide whether the change is an increase or decrease \(\uparrow\downarrow\) and find the percent using the formula \(\frac{\text{change}}{\text{original}}\).

1. Before: 10  
   After: 12
2. Before: 15  
   After: 12
3. Before: 75  
   After: 60

4. Before: 110  
   After: 143
5. Before: 90  
   After: 200
6. Before: 260  
   After: 160

7. 1994 Cost: $171.33  
   1995 Cost: $201.59
   Sale Price: $22.39
9. Start Price: $521.73  
   End Price: 413.68

10. 2004 Cost: $18.77  
     2005 Cost: $19.17
11. Original Number: 45  
    New Number: 72
12. Original Number: 45  
    New Number: 18
Percent of Change – Given the %, Find the Missing Number

Use the \( \frac{\text{change}}{\text{original}} = \frac{\%}{100} \) proportion, fill in what you know and solve for the missing number.

1. Last year the 6th grade had 350 students. This year the number decreased 36%. How many students are in this year’s 6th grade class?

2. Enrollment in the Ski/Snowboard Club increased by 30% this year. There are now 182 students in the club. How many students were there last year?

3. The Game Stop is having a sale and all games are reduced by 55%. If a game is now $29.99, what was the original price? Round your answer to the nearest cent.

4. AYSO has 18 8th grade boys’ teams this year, but this is a 28% (rounded to the nearest whole number) decrease from the prior year. How many 8th grade teams were there last year?
## Percent Increase or Decrease (A)

Find the percent of increase or decrease.

<table>
<thead>
<tr>
<th></th>
<th>Original Amount:</th>
<th>New Amount:</th>
<th>Increase or Decrease?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>300</td>
<td>180</td>
<td>%</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>92</td>
<td>%</td>
</tr>
<tr>
<td>3</td>
<td>140</td>
<td>35</td>
<td>%</td>
</tr>
<tr>
<td>4</td>
<td>500</td>
<td>645</td>
<td>%</td>
</tr>
<tr>
<td>5</td>
<td>360</td>
<td>414</td>
<td>%</td>
</tr>
<tr>
<td>6</td>
<td>370</td>
<td>444</td>
<td>%</td>
</tr>
<tr>
<td>7</td>
<td>500</td>
<td>265</td>
<td>%</td>
</tr>
<tr>
<td>8</td>
<td>350</td>
<td>581</td>
<td>%</td>
</tr>
<tr>
<td>9</td>
<td>400</td>
<td>76</td>
<td>%</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>235</td>
<td>%</td>
</tr>
</tbody>
</table>
Percent of Change

Find each percent change to the nearest percent. State if it is an increase or a decrease.

1) From 45 ft to 92 ft

2) From 74 hours to 85 hours

3) From 74 ft to 75 ft

4) From 36 inches to 90 inches

5) From 94 miles to 34 miles

6) From 12 ft to 23 ft

7) From 83 hours to 76 hours

8) From 24 grams to 96 grams

9) From 20 tons to 99 tons

10) From 16 tons to 72 tons

11) From 117 minutes to 91 minutes

12) From 188 m to 42 m