Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**6.5A Percent Increase and Decrease\_Classwork**

*Objective: find percents of increase; find percent of decrease. CC.SS.7.RP.3*

*HW: 6.5A pg 244\_#8-17 ALL*

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| WARM-UP

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| 1. Solve for x:

$$2\left(x-3\right)=6$$ | 1. What is 40% of 150?
 | 1. Convert 3.14 as fraction and percent.
 |

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| --- | --- |
| **EXAMPLE 1: Finding a Percent of Increase**The table shows the numbers of hours you spend online last weekend. What is the percent of change in your online time from Saturday to Sunday? | **EXAMPLE 2: Finding a Percent of Decrease**The bar graph shows a softball player’s home run totals. What was the percent of change from 2012 to 2013? Round to the nearest hundredth.  |

Decide whether the change is an increase or decrease and find the percent using the formula: $\frac{change}{orginal}$

|  |  |  |
| --- | --- | --- |
| 1. Before: 10; After: 12
 | 1. Before: 15; After: 12
 | 1. Before: 75; After: 60
 |

Round to the nearest hundredth if possible.

|  |  |  |
| --- | --- | --- |
| 1. Before: 110; After: 143
 | 1. Before: 90; After: 200
 | 1. Before 260; After: 160
 |
| 1. 1994 cost: $171.33;

1995 cost: $201.59 | 1. Regular Price: $31.99;

Sale Price: $22.39 | 1. Start Price: $521.73;

End Price: $413.68 |
| 1. 2004 cost: $18.77;

2005 cost: $19.17 | 1. Original Number: 45;

New Number: 72 | 1. Original Number: 45;

New Number: 18 |