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### Percent Change: Starting with 100 is Easy

**Instructions:** For each problem, calculate the difference between the original amount and the new amount. Then express that change as a percent change. Remember it's easy when you start with 100. **Note:** See the Integer Arithmetic section if you need help with negative numbers.

	original	new	difference (change)	percent change
1	100	105	105 - 100 = +5	5% increase
2	100	90	90 - 100 = -10	10% decrease
3		132	132 - 100 = +32	32% increase
4		170	<u>170 - 100 = +70</u>	70% increase
5	100	25	25 - 100 = -75	75% decrease
6		0	0 - 100 = -100	100% decrease
7		155	<u> 155 - 100 = +55</u>	55% increase
8	100	10	10 - 100 = -90	90% decrease
9	100	200	<u>200 - 100 = +100</u>	100% increase
10	100	_400	<u>400 - 100 = +300</u>	300% increase

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CPC 2

#### The Percent Change Formula - Part 1



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# The Percent Change Formula - Part 2

**Instructions:** When you have to calculate the absolute change yourself, the formula for percent change gets just a little more complicated. Use this version of the formula to solve the problems below. You may want to use a calculator and round your answers to the nearest tenth of a percent. change = new – original **SO** % change =  $\frac{\text{new} - \text{original}}{\text{original}} \times 100$ original: **30** new: 22 % change =  $\frac{22 - 30}{30} \times 100 = \frac{-8}{30} \times 100 = -0.267 \times 100$ = 26.7% decrease 2 original: 10 new: 18 % change =  $\frac{18 - 10}{10} \times 100 = \frac{+8}{10} \times 100 = +0.8 \times 100$ = 80% increase new: **60** 3 original: 80 % change =  $\frac{60 - 80}{80} \times 100 = \frac{-20}{80} \times 100 = -0.250 \times 100$ = 25% decrease 4 original: **64** new: **14** % change =  $\frac{14 - 64}{64} \times 100 = \frac{-50}{64} \times 100 = -0.781 \times 100$ = 78.1% decrease 5 original: 5 new: 18 % change =  $\frac{18-5}{5} \times 100 = \frac{+13}{5} \times 100 = +2.6 \times 100$ = 260% increase 6 original: 7 new: 12 % change =  $\frac{12-7}{7} \times 100 = \frac{+5}{7} \times 100 = +0.714 \times 100$ = 714% increase

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# Percent Change Word Problems - Set 1

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# Percent Change Word Problems - Set 2





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CPC 6

## Percent Change Word Problems - Set 3



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