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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	100	132		
4	100	170		
5	100	25		
6	100	0		
7	100	155		
8	100	10		
9	100	200		
10	100	400		

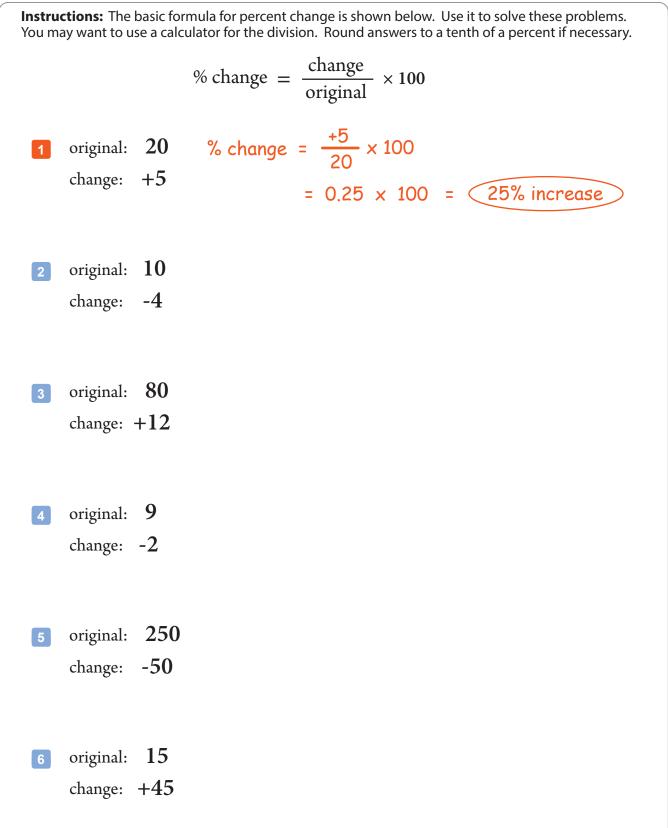
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CPC 2

#### The Percent Change Formula - Part 1





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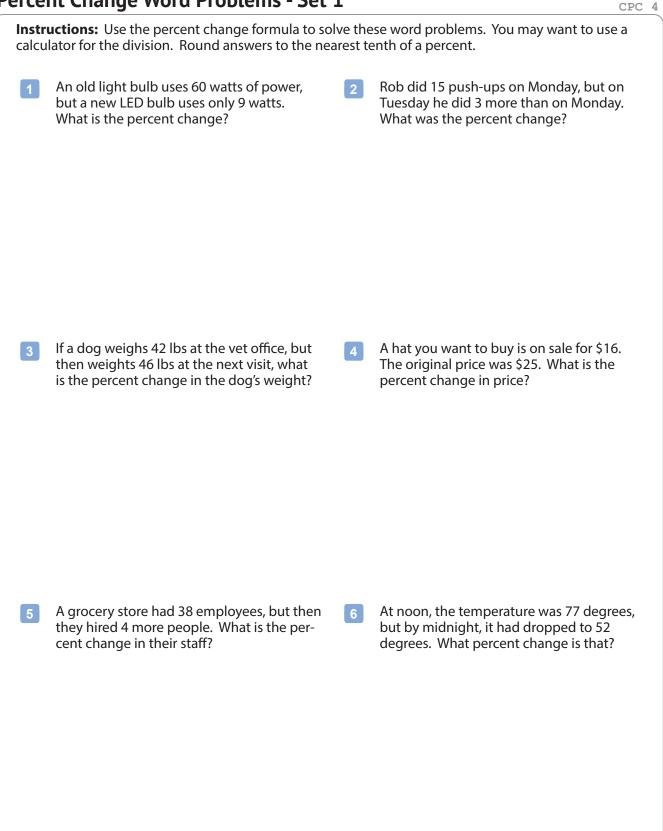
# The Percent Change Formula - Part 2

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 = 
$$\frac{new - original}{original} \times 100$$
  
1 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  
3 original: 80 new: 60  
4 original: 5 new: 18  
5 original: 5 new: 18  
6 original: 7 new: 12



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#### Percent Change Word Problems - Set 1





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#### Percent Change Word Problems - Set 2





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## Percent Change Word Problems - Set 3

	uctions: Use the percent change formula to so	lve the	ese word problems. We recommend using
	culator for these problems. Round answers to the		
1	A meteorologist measures 3.7 inches of rain in April and 2.8 inches of rain in May. What was the percent change from April to May?	2	A small town has a population of 2,650 residents. If 130 more people move to that town, what would the percent change be?
3	A library loaned out 570 books one week and 485 books the next week. What was the percent change in books loaned out?	4	If a person has saved up \$3,120 in their savings account, and then they deposit \$250 more into the account. What per- cent change is that?
5	If a loaf of bread costs \$3.99 but then goes on sale for only \$2.49 what percent change is that?	6	A commuter used to drive 23.5 miles per day. After changing jobs, they now drive 5.4 mile per day. What percent change is that?