

Name \_\_\_\_\_  
Per \_\_\_\_\_ Date \_\_\_\_\_

# 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. 2015 Cost: \$171.33  
2016 Cost: \$201.59

8. Regular Price: \$31.99  
Sale Price: \$22.39

9. Start Price: \$521.73  
End Price: 413.68

10. 2014 Cost: \$18.77  
2015 Cost: \$19.17

11. Original Number: 45  
New Number: 72

12. Original Number: 45  
New Number: 18

Find the Increase  $\uparrow$  or Decrease  $\downarrow$  using  $\frac{\text{change in amounts}}{\text{original amount}}$ . Remember to write your answer as a percent!

1. Skis at a sports store near Snow Summit are on sale for \$476. If the original price was \$560, what is the percent of change?
2. The average fine for entering a National Forest Wilderness without a permit increased from \$65 to \$78. What is the percent of change?
3. A pair of snow boots at an equipment store in Big Bear that originally cost \$60 is on sale for \$36. What is the percent of change?
4. An employee's hourly rate went up from \$10 per hour to \$12 per hour. What is the percent of change?
5. A math book at Moorpark College Bookstore originally cost \$84. If the price is now \$126, what is the percent of change?
6. Bruce's hourly wage increased from \$15.50 to \$18.60. What is the percent of change?
7. A stereo system is marked down from \$450 to \$382.50. What is the percent of change?
8. Jasmine bought a computer which was discounted from \$350 to \$273. What is the percent of change?
9. The salary of the OSH Store Manager increased from \$48,000 to \$51,360. What is the percent of change?
10. Gas prices decreased from \$4 per gallon to \$3.80 per gallon. What is the percent of change?

**Decide which pieces of your percent equation you have for each equation, and which part you are solving for. Write the part you are MISSING next to the question, then set up your equation and solve it on the back or on a separate piece of paper.**

1. You had 5 dozen eggs and sold 15% of them. How many did you sell?
2. You have 66 songs on your phone. This is 11% of the songs you have on your iPod. How many songs are on your iPod?
3. You have 6 shirts in your PE locker. This is 5% of the total shirts you own. How many shirts do you own?
4. Your test had 350 questions on it, and you got 308 correct. What percent did you get on your test?
5. Your best friend scored 60% on her last test. There were 300 points possible. How many points did your friend receive?
6. In PE you made 51 of the 85 baskets you shot. What percent did you make?
7. You read that 24 dogs were adopted from the Shelter Hope in the Janss Mall last week. If there are 200 dogs at the shelter, what percent was adopted?
8. Next year 32% of the students at Boden Middle School will be in 8<sup>th</sup> grade. If there are 500 students enrolled at the school, how many are in 8<sup>th</sup> grade?
9. 16 of the students in Period 4 are getting A's in the class. If there are 25 students in Period 4, what percent are earning A's?
10. You just bought a new toy for \$36 because it was on sale and you only had to pay 45% of the original price. What was the original price?
11. Your friend just bought a different new toy for \$18 because it was also on sale, but it was only 25% of the original price! What was the original price of this toy?
12. You sold your extra Clipper's ticket for 150% of the price you paid for it. If you paid \$80, what price did you sell it for?