## **CONCEPT:** PERCENTAGE CHANGE AND PRICE ELASTICITY OF DEMAND

•	Using nercer	ntage char	nae in a	calculations	allows i	is to make	comparisons	without	worrving	about units	(i.e. dollars	cents)
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$$Percentage \ Change = \frac{Change \ (\Delta) \ in \ X}{Original \ value \ of \ X} = \frac{New \ Value - Original \ Value}{Original \ Value}$$

-	that relates changes between two variables. ariables when calculating elasticities:
	emand: How does quantity demanded respond to a change in price? $nd = \frac{Percentage\ Change\ (\%\Delta)\ in\ Quantity\ Demanded}{Percentage\ Change\ (\%\Delta)\ in\ Price} = \frac{\%\Delta Q_d}{\%\Delta P}$
<b>EXAMPLE:</b> When the price of dog bills percent fewer dog bills. What is your pr	
We use the <u>absolute value</u> of our answ  □ Demand is <b>elastic</b> when □ Demand is <b>inelastic</b> when □ Demand is <b>unit-elastic</b> when	ver because the price elasticity of demand equation always gives a negative answer.

We get a different elasticity when we are increasing price than when we are decreasing price!
<b>EXAMPLE:</b> A pizza company's lunch special currently costs \$5. At this price, the weekly demand is 2,000 lunch specials. If they raise their price to \$6, the weekly demand will drop to 1,400 lunch specials. What is the price elasticity of demand?
<b>EXAMPLE:</b> A pizza company's lunch special currently costs \$6. At this price, the weekly demand is 1,400 lunch specials. If they lower their price to \$5, the weekly demand will increase to 2,000 lunch specials. What is the price elasticity of demand?