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UNIT 6 LESSON 7

**AIM**: SWBAT determine the percent change

**THINK ABOUT IT!**

Tamara starts out with $5 at the beginning of the day. By the end of the day, she has $3.

Step A: What is the change in the amount of money she has?

Step B: What is the percent change from the beginning of the day to the end of the day?

Test the Conjecture #1) What is the percent change if the starting value is 40 and the final value is 60?

Test the Conjecture #2) Yesenia left her house with $160 in her wallet. When she returned home, she only had $100. What was the percent change in the amount of money she has?

Conjecture

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**PARTNER PRACTICE**

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| *Bachelor Level* |

1. What is the percent change if the starting value is 25 and the final value is 30?
2. On Thursday, 30 students went to after-school tutoring. On Friday, 6 students went. What is the percent decrease in the number of students who went to tutoring?

a) 20%

b) 80%

c) 400%

d) 500%

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| *Master Level* |

1. Jason chooses A for question #2. Do you agree or disagree with his answer? Explain.

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**INDEPENDENT PRACTICE**

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| *Bachelor Level* |

1. What is the percent change if the initial about is 50 and the final amount is 70?
2. Ann works in a supermarket for $10.00 per hour. If her pay is increased to $12.00, then what is her percent increase in pay?
3. The price of oil decreased from $54 per barrel to $50 per barrel. What is the percent decrease in oil prices?

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| *Master Level* |

1. Shannon had 765 cards in her baseball collection. She sold 153 of the cards to purchase a new iPod. Which statements below are true? Select all that apply.

a) This represents a percent increase

b) This represents a percent decrease

c) The percent change can be found by evaluating the equation: 612 = %(153)

d) The percent change can be found by evaluating the equation: 612 = %(765)

e) The percent change is 0.8

f) The percent change is 8%

1. As soon as a new car is purchased and driven away from the dealership, it begins to lose its value, or depreciate. Alonso bought a 1994 Plymouth Neon for $9559. One year later, the value of the car was $8500. What was the percent of decrease of the value of the car?
2. The World Future Society predicts that by the year 2020, airplanes will be able to carry 1400 passengers. Today’s biggest jets can carry 600 passengers. What will be the percent of increase of airplane passengers?

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| *PhD Level* |

1. A 25% increase was applied to a number and the amount after the change was 100. Use the percent equation to identify what the original number was and explain how you strategy changed from this lesson in order to solve.

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**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

1. While at the comic book store, Chris saw a Captain America collectable figurine. The original price is listed as $80 but the store owner said he would drop the price to $70. What is the percent decrease in the cost of the figurine?
2. Chris has 15 comic books about the Avengers. He goes to the comic book store and after he leaves he now has 20 Avengers comics. What is Chris’ percent increase in Avenger comics?