Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

Topic 3 Review –Study Guide

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| **Solve using the percent proportion.** | **Solve using the percent equation.** |
| 1.) 45% of what number is 36?  What is the part? \_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is the whole? \_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is the percent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2.) What percent of 27 is 14?  What is the part? \_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is the whole? \_\_\_\_\_\_\_\_\_\_\_\_\_\_  What is the percent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 3.) During the past year Frankie spent 32% of his income on his mortgage and home repairs. If he earned $38,750 during the year, how much money did he spend on his mortgage and home repairs?  The formula/equation I should use is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Now solve. |

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| 4.) Tommy purchased a pair of jeans that cost $48. The cost of tax on his purchase was $4.08. What percent of the purchase price was the tax amount?  The formula/equation I should use is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Now solve. |

Solve using your choice of method.

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| 5.) In 2011, 70.7% of babies in the state of Washington were vaccinated against Chicken Pox within 3 days of birth. If 86,929 babies were born in Washington in 2011, how many were vaccinated against Chicken Pox within three days of their birth? | |
| 6.) What percent of 75 is 15? | 7.) 27 is 30% of what number? |

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| 8.) At the beginning of the year, Miss Mampre deposits $1,400 in her account at an interest rate of 7.3% per year. How much interest will she have after 3 years?  Interest: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Principal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 9.) You are starting your own small business in Albuquerque. You borrow $10,000 from the bank at a 9% rate for 54 months. Find the interest you will pay on this loan.  Interest: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Principal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Rate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Time: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 10.) Find your account balance if you deposit $2500 at a rate of 4% for 7 months. |

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| 11.) You go to the Apple store to buy an iPad Mini. The price marked is $499. Tax in Orland Park is 8.75%. Find the tax dollar amount on the iPad Mini. Find the total cost of the iPad Mini. |
| 12.) Suzie is wandering around Kohls and finds a pair of shoes to go with the outfit she is holding. The outfit is $22.50 and the shoes are $19.99. However, it is her lucky day as she realizes the shoes are on the clearance rack for 70% off. Tax in Orland Park is 8.75%.  a.) Find the cost of the shoes.  b.) Find the sub-total of her items.  c.) Find the total cost. |