Math 6 Plus Unit 3
Unit Rates and Percentages
Additional Practice Problems

1. How many centimeters are in 8 feet ? (1 inch = 2.5 centimeters)	2.Sanae ran 9 kilometers in 40.5 minutes. Daniel ran 6 miles in 48.6 minutes. Who ran faster? (there are 1.6 km in 1 mile)
3.A grocery store sells a small 8 ounce bag of pecans for $3.49 and a large 1.5 pound container for $9.99. What is the better deal? by how much? (16 ounces = 1 pound)	4. If 4 students have blonde hair and this represents 20% of the class, find 10%, 25%,50%, and 100% of the class.
5. What is 40% of 80 ?	6. 60% is 150 of what number ?

7. If 12 Android phones is 30% of the group then what is 10%, 20%,25%,40%, and 75% of the group ?	8.Different states have different sales tax rates. The table below shows a couple of these. Find the tax for each state if a $24.99 shirt is purchased.
	<table><tr><td>state</td><td>sales tax</td></tr><tr><td>NC</td><td>4.75%</td></tr><tr><td>SC</td><td>6%</td></tr><tr><td>VA</td><td>4.3%</td></tr></table>
9. The cost for getting Lin's haircut was $28. She wanted to leave a 15% tip. What was the tip amount? What was the total cost ?	10. If Daniel buys a yearbook at least 4 months early there is a 10% discount. The discounted cost is $37.80. What will be the full cost of the yearbook at the end of the year?

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11. What percent is 21 of 70 ? a.) 30% b.) 7% c.) 14% d.) 50%	12. What is 35% of 210 ? a.) 52.5 b.) 62 c.) 73.5 d.) 16.6
13.In Mrs. Mary's garden 4 out of the 20 plants are tomatoes. What percent of the garden is tomatoes? a.) 4% b.) 5% c.) 20% d.) 40%	14. There were 30 superheroes in Avengers:Endgame. 12 were males. What percent of superheroes were female? a.) 40% b.) 12% c.) 45% d.) 60%

15. An 8 ounce M&M bag was emptied,examined, and tallied. The table shows the number of M&M's in each color.

color	frequency
red	6
white	5
blue	3

 What approximate percent of the bag is red?

a.) 36%
b.) 21%
c.) 60%
d.) 43%

16. Jack got 17 out of 20 questions on the last math test. What is his grade percentage?

a.) 17%
b.) 85%
c.) 90%
d.) 70%

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17. If 80% of customers order chocolate ice cream then how many customers came into the store if 76 customers purchased chocolate? a.) 61 b.) 15 c.) 95 d.) 380	18. Jada bought a pair of rollerskates for $35.99. There was a 7% sales tax. What was the tax? a.) $2.52 b.) $33.47 c.) $25.19 d.) $3.59
19. Patio furniture is on sale for 30% off. If Matthew wants to purchase a table set for $250. How much will he save? a.) $17.50 b.) $7.50 c.) $175.00 d.) $75.00	20. Mother's Day brunch at a local restaurant comes to a subtotal of $65.50. A 20% tip is expected. What is the total amount that must be paid? a.) $13.10 b.) $78.60 c.) $52.40 d.) $117.90

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