Name: Block:

**Review for Assessment 7 - Accelerated 6th Grade**

*Calculators Permitted on all Questions*

*For ALL questions, show how you determined your answer.*

***6.RP.3c***

1. Ms. Berman has 110 students, but kicks out 30% of them. How many students does Ms. Berman have left?

2. John answered 31 out of 35 questions correctly on his math test. What percent of the questions did he answer correctly?

3. Michael Jordan’s free throw percentage was a 90%. He made 27 shots. How many total shots did he take?

4. Mya bought a hoodie that was on sale for 25% less than the original price. The original price was $40 more than the sale price (***meaning****: it was discounted by $40)*. What was the original price?

5. You want to buy a couch that costs $1,500 and see that it will be on sale for the next week. If the sale requires you to pay only 80% of the purchase price, how much will you have to pay if you buy it on sale?

6. You go to dinner and receive the bill for $38.00 and want to tip your waiter 18%.

**Part A:**  How much tip should you leave?

**Part B:** What is the total cost for the dinner, including tip?

7. 200 people visited Plumpton Park Zoo in the spring. The number of people visited increased by 35% in the summer. How many people visited the zoo in the summer?

8. Ms. Berman brought 50 pieces of candy to share with her students. The students ate 10 pieces of candy.

**Part A:** What percent of the candy was eaten?

**Part B:** What percent of the candy is left?

9. Mr. Huff brought 80 pieces of candy to share with her students. The students ate 60 pieces of candy.

**Part A:** What percent of the candy was eaten?

**Part B:** What percent of the candy is left?

10. Kaylynn went shopping and wants to buy clothing that totals $42.65 before tax.

**Part A:** If the sales tax is 8%, how much will she have to pay in tax?

**Part B:** What is the total that she owes?

11. Convert $\frac{11}{20}$ to a decimal and a percent.

 Decimal: \_\_\_\_\_\_\_\_\_\_\_ Percent: \_\_\_\_\_\_\_\_\_\_\_

12. Convert 30% to a decimal and a fraction:

 Decimal: \_\_\_\_\_\_\_\_\_\_\_ Fraction: \_\_\_\_\_\_\_\_\_\_\_

13. Convert 0.941 to a fraction and a percent:

 Fraction: \_\_\_\_\_\_\_\_\_\_\_ Percent: \_\_\_\_\_\_\_\_\_\_\_

Name: Block:

**Challenges for Assessment 7 - Accelerated 6th Grade**

*Calculators Permitted on all Questions*

*For ALL questions, show how you determined your answer.*

***Challenge Questions***

1. At a local restaurant, Alyssa purchased a lunch for $19.52. He decided to leave an additional 25% tip. If Alyssa gave the waitress $30.00, how much change did he receive?

2. Jess wants to buy a car. He can get a 20% discount if he waits for next month’s sale. If *x* represents the original cost of the car, which variable expression can be used to determine the sale price of the car?

 **A.** *x* – 0.20 **B.** 1.20*x* **C.** *x* – 20*x* **D.** 0.80*x*

3. Ms. Berman charges $20 per hour for pet sitting. She raises the fee 40%.

a. What is the fraction that corresponds to the fee increase?

b. What is Ms. Berman’s new hourly wage?

4. Charlotte is a salesperson that wants to earn $3,500 in December. She receives a base salary of $1,400. She also received a 25% commission of her sales. How much will Sophie need to sell in December to meet her goal?

***Even more challenging…Can you do it?***

5. Allie took her family out to brunch. The bill totaled to $201.60 after 8% sales tax (without tip). How much was the dinner, to the nearest penny, **before tax?**

6.In December, the price of a computer increased from $800 to $950. Then, in January, the price of the same computer decreased from $950 to $800. Haley stated that the percent of increase in December was equal to the percent of decrease in January? Is she correct? Justify your response using mathematics.

7. Each bulleted statement describes how the amount of income tax is determined for yearly taxable incomes in different ranges.

* Yearly taxable incomes of $5,320 or less are taxed at a flat rate of 6%.
* For yearly taxable incomes from $5,320 to $31,562, the first $5,320 is taxed at 6% and any income beyond $5,320 is taxed at 10%.
* For yearly taxable incomes greater than $31,562, the first $5,320 is taxed at 5%, the next $26,242 is taxed at 10%, and any income beyond $31,562is taxed at 20%.

**Part A:** Your yearly taxable income is $34,292. What is the dollar amount taken out for taxes based on your taxable income?

**Part B:** Mr. Rivera’s taxable income is $15 each hour before taxes are taken out. Mr. Rivera worked a total of 40 hours each week for 35 weeks. What is the dollar amount, to the nearest dollar, taken out for taxes based on Mr. Rivera’s taxable income?