Year 7 Worksheet 3: Percentages

Question 1: Converting between fractions, decimals, and percentages.

1	Lisa scored 85% on her math test. What is her score as a decimal?
2	If 3/5 of a pizza is left, what percentage of the pizza remains?
3	Convert 0.2 to a fraction in its simplest form.
4	A shirt originally priced at $40 is on sale for 25% off. What is the sale price?
5	Express 75% as a decimal.

6	If 2/3 of a class passed a test, what percentage failed?
7	Sarah spent 40% of her allowance. How much money does she have left if her allowance was $50?
8	Convert 0.625 to a percentage.
9	A recipe calls for 1/4 cup of sugar. If you want to make half the recipe, how much sugar do you need?
10	Emma wants to save 20% of her monthly allowance. If her allowance is $80, how much will she save?

Question 2: Calculating percentages of quantities.

1	If a store has a 30% off sale, how much will you save on a $60 pair of shoes?
2	Mary scored 85% on her science test. If the test had 40 questions, how many did she answer correctly?
3	A laptop originally costs $800, but it's on sale for 15% off. What is the sale price?
4	If you receive a 10% tip on a $50 restaurant bill, how much is the tip?
5	A soccer team won 80% of their games this season. If they played 20 games, how many did they lose?

6	A shirt that originally cost $25 is now 40% off. What is the final price?
7	You need to find 20% of 250 to calculate a discount. What is the discount amount?
8	A school's fundraising goal is $5,000. If they've already raised 60%, how much more do they need?
9	If you received a 25% discount on a $120 video game console, how much did you pay?
10	A class of 30 students, 60% of whom are girls, is going on a field trip. How many boys are going?

Question 3: Answer the following.

1	A store is offering a 20% discount on a $150 item. If you also have a 10% off coupon, what is the final price in dollars?
2	Sarah wants to spend only 15% of her monthly income on entertainment, which is $240. What is her monthly income in dollars?
3	Jenny invested $5,000 in a stock, and it increased by 15% in the first year. In the second year, it decreased by 10%. What is the value of her investment at the end of the second year?
4	A school is organizing a charity drive. If 45% of the students participate, and there are 500 students in total, how many students are not involved?

5	You want to save 25% of your monthly allowance of $80. How much money will you save in a year?
6	A garden is divided into two sections. If one section is 30% larger than the other, and the smaller section is 120 square meters, what is the size of the larger section in square meters?
7	A car dealership is offering 12% off the original price of a car that costs $28,000. What is the sale price?
8	Your teacher allows you to retake a test you scored 60% on. If you want to achieve a final score of 80%, how many points do you need to earn on the retake out of 100? The final score is the average of 2 tests.

9	A company has a workforce of 500 employees. In a survey, it was found that 30% of the employees are fluent in both English and Spanish, and 40% of the employees are fluent in English. How many employees are fluent in English but not in Spanish?
10	A store is selling a product for $75, which is 25% off the original price. If you also have a 15% discount coupon, what is the final price in dollars?

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Answer Key

1	Lisa scored 85% on her math test. What is her score as a decimal? Answer: 0.85
2	If 3/5 of a pizza is left, what percentage of the pizza remains? Answer: 60%
3	Convert 0.2 to a fraction in its simplest form. Answer: 1/5
4	A shirt originally priced at $40 is on sale for 25% off. What is the sale price? Answer: $30
5	Express 75% as a decimal. Answer: 0.75
6	If 2/3 of a class passed a test, what percentage failed? Answer: 33.33% (or 1/3)
7	Sarah spent 40% of her allowance. How much money does she have left if her allowance was $50? Answer: $30
8	Convert 0.625 to a percentage. Answer: 62.5%
9	A recipe calls for 1/4 cup of sugar. If you want to make half the recipe, how much sugar do you need? Answer: 1/8 cup
10	Emma wants to save 20% of her monthly allowance. If her allowance is $80, how much will she save? Answer: $16

Question 2: Calculating percentages of quantities.

1	If a store has a 30% off sale, how much will you save on a $60 pair of shoes? Answer: $18
2	Mary scored 85% on her science test. If the test had 40 questions, how many did she answer correctly? Answer: 34 questions
3	A laptop originally costs $800, but it's on sale for 15% off. What is the sale price? Answer: $680
4	If you receive a 10% tip on a $50 restaurant bill, how much is the tip? Answer: $5
5	A soccer team won 80% of their games this season. If they played 20 games, how many did they lose? Answer: 4 games
6	A shirt that originally cost $25 is now 40% off. What is the final price? Answer: $15
7	You need to find 20% of 250 to calculate a discount. What is the discount amount? Answer: 50
8	A school's fundraising goal is $5,000. If they've already raised 60%, how much more do they need? Answer: $2,000
9	If you received a 25% discount on a $120 video game console, how much did you pay? Answer: $90
10	A class of 30 students, 60% of whom are girls, is going on a field trip. How many girls are going? Answer: 18 girls

Question 3: Answer the following.

1	A store is offering a 20% discount on a $150 item. If you also have a 10% off coupon, what is the final price in dollars? Answer: $110
2	Sarah wants to spend only 15% of her monthly income on entertainment, which is $240. What is her monthly income in dollars? Answer: $1,600
3	Jenny invested $5,000 in a stock, and it increased by 15% in the first year. In the second year, it decreased by 10%. What is the value of her investment at the end of the second year? Answer: Value after Year 1 = $5,000 + (0.15 * $5,000) = $5,750 Value after Year 2 = $5,750 - (0.10 * $5,750) = $5,175 So, the value of her investment at the end of the second year is $5,175.
4	A school is organizing a charity drive. If 45% of the students participate, and there are 500 students in total, how many students are not involved? Answer: 275 students
5	You want to save 25% of your monthly allowance of $80. How much money will you save in a year? Answer: $240
6	A garden is divided into 2 sections. If one section is 30% larger than the other, and the smaller section is 120 square meters, what is the size of the larger section in square meters? Answer: 156 square meters
7	A car dealership is offering 12% off the original price of a car that costs $28,000. What is the sale price? Answer: $24,640
8	Your teacher allows you to retake a test you scored 60% on. If you want to achieve a final score of 80%, how many points do you need to earn on the retake out of 100? The final score is the average of 2 tests.

	Answer: 100% since (100+60)/2 = 80
9	A company has a workforce of 500 employees. In a survey, it was found that 30% of the employees are fluent in both English and Spanish, and 40% of the employees are fluent in English. How many employees are fluent in English but not in Spanish? Answer: Fluent in Both = 30% of 500 = 0.30 * 500 = 150 employees Fluent in English = 40% of 500 = 0.40 * 500 = 200 employees Fluent in English but Not in Spanish = 200 employees - 150 employees = 50 employees
10	A store is selling a product for $75, which is 25% off the original price. If you also have a 15% discount coupon, what is the final price in dollars? Answer: Intermediate Price = $75*0.75 = $56.25 Final Price = 85% of $56.25 = 0.85 * $56.25 = $47.81