

Name: _____ Date Turned In: _____ Class: _____

Total Grade: _____/10

Correct: _____/61

Participation: _____/61

Algebra I: Classwork Week of 10/19/26

Directions: You must show all of your work and reduce answers in order to receive credit. If work is not finished in class it is your responsibility to finish it as homework.

Monday, 10/19/26

Units: 12 inches in 1 foot, 3 feet in 1 yard

State the ratio of:

1. 6 in to 12 in	2. 1 ft to 24 in
3. 24 in to 1 ft	4. 40 yd to 20 ft
5. 3x to 4x	6. 32y to 42y
7. \$36 to \$45	8. $\frac{5}{6}$ to $\frac{7}{6}$

9. $\frac{1}{4}$ to $\frac{3}{4}$

10. 0.6 to 6

11. 16 to 24

12. 4 in to 4 ft

13. 27 to 9

14. 46x to 52x

15. ab to kb

16. $\frac{3x}{5}$ to $\frac{2x}{5}$

Tuesday, 10/20/26

Change the following percents to fractions:

1. 50%	2. 3%
3. $37\frac{1}{2}\%$	4. 84%

Change the following fractions to percents:

1. $\frac{1}{2}$	2. $\frac{1}{6}$
3. $1\frac{1}{4}$	4. $\frac{3}{20}$
5. $\frac{3}{8}$	6. $\frac{1}{20}$

Find:

1. 25% of 320	2. 75% of 200
3. 200% of 130	4. $66\frac{2}{3}\%$ of 240

Find what percent the first quantity is of the second:

1. 16 and 24	2. 27 and 9
3. 3 and 12	4. $\frac{1}{2}$ and $\frac{3}{4}$

Wednesday, 10/21/26

1. Increase 250 by 20%	2. Decrease 80 by 10%
3. Increase 60 by 10%	4. Decrease 70 by 85%
5. Increase 300 by 20%	6. Decrease 80 by 5%
7. Increase 276 by $83\frac{1}{3}\%$	

Thursday, 10/22/26

By what ratio must a number be multiplied by to increase it by:

1. 100%	2. 50%	3. 20%	4. 25%	5. 15%

By what ratio must a number be multiplied by to decrease it by:

6. 50%	7. 25%	8. 10%	9. 12%	10. 70%

11. If $c = d$, what is the ratio of c to d ?

12. If $5b = h$, what is the ratio of h to b ?

13. If $3x = 2y$, what is the ratio of x to y ?

14. If $5m = 10n$, what is the ratio of n to m ?

15. If $ax = b$, what is the ratio of b to a ?

Friday, 10/23/26

1. Two numbers are in the ratio of $7 : 5$ and their sum is 30. Find the numbers.

2. The sides of a triangle are in the ratio $2 : 3 : 4$ and the perimeter is 378 inches. Find the length of each side.

3. 32% of a certain number is 16. Find the number.

4. 35% of a certain amount of money is \$105. Find the amount of money.

5. A number is such that if 10% of it is increased by 17, the result is equal to 95% of the original number. Find the original number.