

Algebra I Pre-Assessment: Pre-Algebra Review Homework Assessment**Problem**

1. For each of the following problems, show all or your work, and use the provided problem set sheet for all of your answers.

Section #1: Find the Percent or Fraction of a Certain Number

1. What is 18% of 350.
2. What is 41% of 800.
3. What is $\frac{3}{8}$ of 160.

Section #2: Adding & Subtracting Fractions

For each of the following write answers as fractions or mixed number in simplest form.

4. $\frac{1}{6} + \frac{5}{8}$
5. $1\frac{2}{3} - \frac{8}{9}$
6. $2\frac{1}{2} + 3\frac{1}{5}$

Section #3: Multiplying and Dividing Fractions

For each of the following write answers as fractions or mixed number in simplest form

7. $\frac{3}{8} \times \frac{4}{9}$
8. $2\frac{1}{3} \times 5\frac{1}{2}$
9. $1\frac{2}{3} \div 4\frac{1}{2}$

Section #4: Factors & Prime Factorization

10. List all of the factors for 126.
11. What is the Prime Factorization of 60?

12. What is the Prime Factorization of 153?
13. **Section #5: Greatest Common Factors (GCF's) & Least Common Multiples (LCM'S)**
13. What is the GCF of 8 and 12?
14. What is the LCM of 36 and 50?
15. What is the GCF of 68 and 82?
16. **Section #6: Converting Between Decimals, Fractions, and Percentages**
16. Write 350% as a decimal and as a fraction or mixed number?
17. Write $\frac{3}{5}$ as a decimal and a percentage?
18. Write 6.6 as a percentage and as a fraction or mixed number in simplest form?
19. **Section #7: Perimeter, Area, and Volume**
19. What is the perimeter of a rectangle with a length of 12.5 cm and a width of 11.6 cm?
20. What is the area of Triangle with a base of 25 cm and a height of 20 cm?
21. What is the volume of a rectangular prism with length of 6.5 mm, width of 5.5 mm, and height of 2.2 mm?