

Write your answers in the space provided and then upload, or write solutions on paper and then scan to upload.

1. Factor 252 completely. This means you will express 252 as a product of prime numbers. Example:  $12 = 2 \times 2 \times 3$

2. Find the GCF (Greatest Common Factor), of 90 and 75.

3. Divide. Write the answer in simplest form.

$$\frac{7}{12} \div \frac{2}{3} =$$

4. Add. Show steps. Write the answer in simplest form.

$$\frac{8}{15} + \frac{7}{12} =$$

5. Subtract. Show steps. Write the answer in simplest form.

$$6\frac{1}{3} - 2\frac{3}{4} =$$

6. Write as common fractions in simplest a/b form .

a. 95%

b.  $\frac{10.8}{5}$

c. 0.326

7. Express as a decimal fraction.

a. 78.3% =

b.  $\frac{15}{200} =$

8. Evaluate each of the following expressions. **Show steps. Write the answer in simplest form.**

a. 
$$\frac{72 - 2(4 + 8)^2 + 9}{6^2} =$$

b. 
$$\frac{-19 - 7}{-25 + 3} =$$

9. Simplify by combining like terms.

$$9x^2y - 17xy^2 - 4y^2 + x^2y + 5xy^2 =$$

10. Re-write the following in ascending order.

$$-3.1, 0.01, 7.6, 6.09, -1.01, -1, 7.8, -1.2, 11$$

11. Subtract  $7a^2$  from the sum of  $(12a^2 + 8)$  and  $(5a^2 - 3)$