

## Prealgebra Fraction Review

Simplify each of the following. Show all steps. Reduce all answers to lowest terms.

1.  $\frac{5}{13} \cdot \frac{4}{25} \cdot \frac{26}{32}$

2.  $2 \cdot \frac{1}{2} + 5 \cdot \frac{4}{5}$

3.  $50 \cdot \left(\frac{4}{5}\right)^2 + 36 \cdot \left(\frac{5}{6}\right)^2$

4.  $\frac{3}{8} \cdot \frac{12}{21} \cdot \frac{7}{10}$

5.  $\frac{15}{28} \cdot \frac{32}{45}$

6.  $\frac{21}{22} + \frac{11}{10}$

7.  $\frac{3}{13} + \frac{4}{9} \cdot \frac{18}{13}$

8.  $\frac{62}{81} \div \frac{93}{99}$

$$9. 18 \div \left(\frac{3}{5}\right)^2 + 32 \div \left(\frac{4}{7}\right)^2$$

$$10. \frac{2}{x} \cdot \frac{x^2}{8} \div \frac{4}{x}$$

$$11. \frac{6}{45} + \frac{3}{50}$$

$$12. \frac{3}{75} + \frac{7}{90}$$

$$13. \frac{11}{90} + \frac{13}{120}$$

$$14. \frac{17}{130} + \frac{21}{150}$$

$$15. 2\frac{1}{10} \cdot 2\frac{2}{7}$$

$$16. 6\frac{1}{4} \div 3\frac{3}{4}$$

$$17. 9\frac{4}{9} + 1\frac{5}{6}$$

$$18. 9\frac{1}{3} - 5\frac{3}{4}$$

Answers:

1.  $\frac{1}{20}$

2. 5

3. 57

4.  $\frac{3}{20}$

5.  $\frac{8}{21}$

6.  $\frac{113}{55}$

7.  $\frac{11}{13}$

8.  $\frac{22}{27}$

9. 148

10.  $\frac{x^2}{16}$

11.  $\frac{29}{150}$

12.  $\frac{53}{450}$

13.  $\frac{83}{360}$

14.  $\frac{88}{325}$

15.  $\frac{24}{5}$

16.  $\frac{5}{3}$

17.  $11\frac{5}{18}$

18.  $3\frac{7}{12}$