

## ALGEBRA REVIEW WS1 – FRACTIONS & SOLVING EQUATIONS

EVALUATE EACH EXPRESSION WITHOUT A CALCULATOR. LEAVE ALL ANSWERS AS IMPROPER FRACTIONS.

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

2.  $\frac{7}{8} - \frac{1}{8}$

3.  $\frac{9}{5} + \frac{1}{2}$

4.  $\frac{8}{3} - (-\frac{3}{4})$

5.  $\frac{7}{9} - \frac{2}{6}$

6.  $6 - \frac{1}{6}$

7.  $\frac{1}{3} \cdot \frac{3}{5}$

8.  $\frac{4}{7} \cdot \frac{6}{5}$

9.  $\frac{2}{5} \div \frac{4}{5}$

10.  $\frac{3}{8} \div \frac{1}{2}$

11.  $\frac{\frac{3}{4}}{\frac{6}{5}}$

12.  $\frac{12}{10} \cdot \frac{8}{3}$

**SOLVE EACH EQUATION FOR THE INDICATED VARIABLE.**

13.  $7x - 13 = 22$

14.  $5 + 3x = 19$

15.  $2x + 0.25 = 4.75$

16.  $\frac{x+2}{7} = 8$

17.  $-7c + 9 = c + 1$

18.  $4(2y - 4) = 5y + 2$

19.  $-6 - 2n = 3n - (6+5)$

20.  $4(x + 5) - 3 = 6t - 13$

21.  $2(r - 4) = 5(r + -7)$

22.  $7 - 6a = 6 - 7a$

23.  $\frac{2}{3}b + 5 = 20 - b$

24.  $\frac{2}{3}x - \frac{1}{6} = \frac{1}{2}x + \frac{5}{6}$