Laps #1

1. $\frac{3}{5} + \frac{1}{3} = \frac{9+5}{15} = \boxed{\frac{14}{15}}$

2. $\frac{9}{14} - \frac{5}{7} = \frac{9-10}{14} = \boxed{\frac{-1}{14}}$

3. $1\frac{2}{3} + 3\frac{1}{4} = \frac{5}{3} + \frac{13}{4} = \frac{20+39}{12} = \frac{59}{12} = \boxed{4\frac{11}{12}}$

4. $\frac{1}{6} \times \frac{5}{8} = \boxed{\frac{5}{48}}$

5. $3\frac{3}{8} \times \frac{2}{3} = \frac{\cancel{27}^{9}}{\cancel{8}_{4}} \times \frac{\cancel{2}^{1}}{\cancel{3}_{1}} = \frac{9}{4} = \boxed{2\frac{1}{4}}$

6. $\frac{4}{5} \div \frac{3}{4} = \frac{4}{5} \cdot \frac{4}{3} = \frac{16}{15} = \boxed{1\frac{1}{15}}$

7. $\frac{\frac{2}{3}}{\frac{3}{4}} = \frac{2}{3} \cdot \frac{4}{3} = \boxed{\frac{8}{9}}$

8. $\frac{2}{3} \times \frac{1}{\frac{1}{2}} = \frac{2}{3} \cdot 2 = \frac{4}{3} = \boxed{1\frac{1}{3}}$

9. $(-3)^2 = \boxed{9}$

10. $-3^2 = \boxed{-9}$

11. $\left(\frac{1}{3}\right)^2 = \boxed{\frac{1}{9}}$

12. $(-2)^3 =$ $\boxed{-8}$

13. $(2)^0 =$ $\boxed{1}$

14. $x^2 \cdot x^3 =$ $\boxed{x^5}$

15. $\frac{x^2}{3x^4} \cdot x^2 =$ $\boxed{\frac{1}{3}}$

16. $(2x)^3 =$ $\boxed{8x^3}$

17. $\frac{(2x)^3}{(-3x)^2} = \frac{8x^3}{9x^2} = \boxed{\frac{8}{9}x}$

18. solve $6y + 3 = y - 12$

$5y = -15$

$\boxed{y = -3}$

check: $6 \cdot (-3) + 3 \stackrel{?}{=} -3 - 12$

$-18 + 3 \stackrel{?}{=} -15$

$-15 \stackrel{\checkmark}{=} -15$