

$$6. \quad \frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{2 \cdot 3}{3 \cdot 3} = \frac{2}{3}$$

$$7. \quad \frac{3}{8} + \frac{3}{10} = \frac{3 \cdot 5}{8 \cdot 5} + \frac{3 \cdot 4}{10 \cdot 4} = \frac{15}{40} + \frac{12}{40} = \frac{27}{40}$$

$$\begin{array}{cccc} 8 & 16 & 24 & 32 & (40) \\ 10 & 20 & 30 & (40) & \end{array}$$

$$8. \quad \begin{array}{r} 3 \frac{1}{2} = 3 \frac{7}{14} \\ + 5 \frac{4}{7} = 5 \frac{8}{8} \\ \hline 8 \frac{15}{14} = 8 + 1 \frac{1}{14} \\ = 9 \frac{1}{14} \end{array}$$

$$9. \quad \frac{6}{7} - \frac{2}{7} = \frac{4}{7}$$

$$10. \quad \frac{5}{6} - \frac{5}{9} = \frac{5 \cdot 3}{6 \cdot 3} - \frac{5 \cdot 2}{9 \cdot 2} = \frac{15}{18} - \frac{10}{18} = \frac{5}{18}$$

$$11. \quad 7 \frac{2}{3} = 7 \frac{8}{12}$$

$$\begin{array}{r} -4 \frac{1}{4} = -4 \frac{3}{12} \\ \hline 3 \frac{5}{12} \end{array}$$

$$12. \quad 5 \frac{1}{6} = 5 \frac{4}{24} = 4 \frac{28}{24}$$

$$\begin{array}{r} -3 \frac{5}{8} = -3 \frac{15}{24} \\ \hline 1 \frac{13}{24} \end{array}$$

$$13. \quad \frac{2}{21} \times \frac{14^2}{15^2} = \frac{4}{9}$$

$$14. \quad 2 \frac{5}{6} \times 3 \frac{1}{3} = \frac{17}{6} \times \frac{10}{3} = \frac{85}{9} = 9 \frac{4}{9}$$

$$15. \quad \frac{3}{8} \div \frac{15}{32} = \frac{3}{8} \times \frac{32}{15} = \frac{4}{5}$$

$$16. \quad 2 \frac{4}{7} \div 4 \frac{1}{2} = \frac{18}{7} \div \frac{9}{2} = \frac{18}{7} \cdot \frac{2}{9} = \frac{4}{7}$$

$$17. \quad \frac{3}{4} - \frac{11}{16} = \frac{12}{16} - \frac{11}{16} = \frac{1}{16}$$

The longer paper clip is $\frac{1}{16}$ inch longer than the shorter paper clip.

$$18. \quad SA = 4\pi r^2$$

$$SA = \frac{4}{1} \cdot (3 \frac{1}{7}) \cdot (1 \frac{3}{4})^2 = \frac{4}{1} \cdot \frac{22}{7} \cdot \frac{1}{4} \cdot \frac{7}{4} = \frac{77}{2} = 38 \frac{1}{2}$$

The surface area of the ball is $38 \frac{1}{2}$ cubic inches.