

$$\textcircled{1} \quad \frac{3}{7} \div \frac{5}{6} \\ \frac{3}{7} \cdot \frac{6}{5} \rightarrow \frac{1}{7} \cdot \frac{6}{5} = \boxed{\frac{6}{35}}$$

$$\textcircled{2} \quad \frac{7}{13} \div \frac{4}{11} \\ \frac{7}{13} \cdot \frac{11}{4} = \boxed{\frac{77}{52}}$$

$$\textcircled{3} \quad \frac{2}{7} \div \frac{1}{6} \\ \frac{2}{7} \cdot \frac{6}{1} \rightarrow \frac{2}{7} \cdot \frac{6}{2} = \boxed{\frac{3}{7}}$$

$$\textcircled{4} \quad 3 \cdot 2\frac{4}{18} \\ \frac{3}{1} \cdot \frac{41}{18} \rightarrow \frac{1}{1} \cdot \frac{41}{6} = \boxed{\frac{41}{6}}$$

$$\textcircled{5} \quad \frac{4}{5} \div 8 \\ \frac{4}{5} \div \frac{8}{1} \rightarrow \frac{4}{5} \cdot \frac{1}{8} \rightarrow \frac{1}{5} \cdot \frac{1}{2} = \boxed{\frac{1}{10}}$$

$$\textcircled{6} \quad 3\frac{1}{4} \div \frac{1}{9} \\ \frac{28}{4} \div \frac{1}{9} \rightarrow \frac{28}{4} \cdot \frac{9}{1} = \frac{28}{1} \cdot \frac{9}{1} = \boxed{28}$$

$$\textcircled{7} \quad 2\frac{1}{6} \div 4\frac{7}{12} \\ \frac{13}{6} \div \frac{55}{12} \rightarrow \frac{13}{6} \cdot \frac{12}{55} \rightarrow \frac{13}{1} \cdot \frac{2}{55} = \boxed{\frac{26}{55}}$$

$$\textcircled{8} \quad \frac{8}{15} + \frac{1}{20} \\ \frac{4 \cdot 8}{4 \cdot 15} + \frac{1 \cdot 3}{20 \cdot 3} \rightarrow \frac{32}{60} + \frac{3}{60} = \frac{35}{60} = \boxed{\frac{7}{12}}$$

$$\textcircled{9} \quad \frac{5}{7} - \frac{4}{6} \\ \frac{2 \cdot 5}{2 \cdot 7} - \frac{1 \cdot 4}{2 \cdot 3} \rightarrow \frac{2 \cdot 5}{2 \cdot 7} - \frac{1}{2} = \boxed{\frac{3}{7}}$$

$$\textcircled{10} \quad \frac{11}{3} - 3 \\ \frac{11}{3} - \frac{3 \cdot 3}{1 \cdot 3} \rightarrow \frac{11}{3} - \frac{9}{3} = \boxed{\frac{2}{3}}$$

$$\textcircled{11} \quad 2\frac{1}{7} + 1\frac{4}{5} \\ \frac{5 \cdot 15}{5 \cdot 7} + \frac{9 \cdot 4}{5 \cdot 7} \rightarrow \frac{15}{35} + \frac{36}{35} = \boxed{\frac{51}{35}}$$

$$\textcircled{12} \quad 15\frac{2}{9} - \frac{17}{27} \\ \frac{3 \cdot 137}{3 \cdot 9} - \frac{17}{27} \rightarrow \frac{411}{27} - \frac{17}{27} = \boxed{\frac{394}{27}}$$

$$\textcircled{13} \quad \frac{2}{9} + \frac{2}{3} - \frac{1}{6} \\ \frac{2 \cdot 2}{2 \cdot 9} + \frac{6 \cdot 2}{6 \cdot 3} - \frac{3 \cdot 1}{3 \cdot 6} \rightarrow \frac{4}{18} + \frac{12}{18} - \frac{3}{18} = \boxed{\frac{13}{18}}$$

$$\textcircled{14} \quad 4 + (6 \cdot 15) - 3 \\ 4 + (90) - 3 \rightarrow 94 - 3 = \boxed{91}$$

$$\textcircled{15} \quad 5[6 + 2(3 + 5)] \\ 5[6 + 2(8)] \rightarrow 5[6 + 16] \rightarrow 5[22] = \boxed{110}$$

$$\textcircled{16} \quad (8 + 4)[6 + (8 + 5)] \\ (82)[6 + (8 + 5)] \rightarrow (82)[6 + (13)] \rightarrow (82)[19] = \boxed{228}$$

$$\textcircled{17} \quad [30 - (4 + 6) \div 2] - [1 + 24 \div 3] \\ [30 - (10) \div 2] - [1 + 8] \rightarrow [30 - 5] - [9] \\ \rightarrow [25] - [9] = \boxed{16}$$

$$\textcircled{18} \quad | -23 | + 124 + 191 \\ 23 + | 43 | \rightarrow 23 + 43 = \boxed{66}$$

$$\textcircled{19} \quad \frac{20 + 113 - 11}{12 - 1} \\ \frac{20 + | 12 |}{11} \Rightarrow \frac{20 + 12}{11} = \boxed{\frac{32}{11}}$$

$$\textcircled{20} \quad 5x + 4y \quad x = -4 \quad y = -2 \\ 5(-4) + 4(-2) \\ -20 - 8 = \boxed{-28}$$