Extra Practice Multiply Mixed Fractions

1. $7\frac{1}{6}\times 4$

2. $6\times 5\frac{2}{3}$

3. $4\frac{2}{3}\times 1\frac{2}{7}$

4. $2\frac{2}{5}\times 3\frac{1}{3}$

5. $5\frac{1}{3}\times 7\frac{1}{2}$

6. $3\frac{1}{8}\times 2\frac{2}{15}$

7. $2\frac{7}{9}\times 2\frac{7}{10}$

8. $6\frac{3}{10}\times 3\frac{3}{14}$

9. $3\frac{1}{9} \times 1\frac{5}{7}$

10. $3\frac{3}{4} \times 3\frac{2}{6}$

11. $2\frac{2}{3} \times 1\frac{5}{6}$

12. $6\frac{1}{4} \times 2\frac{2}{5}$

13. $5\frac{3}{5} \times 1\frac{3}{7}$

14. $8\frac{2}{3} \times 5\frac{1}{4}$

15. $4\frac{1}{5} \times 1\frac{1}{14}$

Answers

1. $3\frac{1}{2}\times 4=\frac{7}{2}\times\frac{4}{1}=\frac{7}{\cancel{2}_{1}}\times\frac{\cancel{4}^{2}}{1}=\frac{7}{1}\times\frac{2}{1}=\frac{14}{1}=14$

2. $6\times 5\frac{2}{3}=\frac{6}{1}\times\frac{17}{3}=\frac{\cancel{6}^{2}}{1}\times\frac{17}{\cancel{3}_{1}}=\frac{2\times 17}{1\times 1}=\frac{34}{1}=34$

3. $4\frac{2}{3}\times 1\frac{2}{7}=\frac{14}{3}\times\frac{9}{7}=\frac{\cancel{14}^{2}}{3}\times\frac{9}{\cancel{7}_{1}}=\frac{2}{\cancel{3}_{1}}\times\frac{\cancel{9}^{3}}{1}=\frac{2\times 3}{1}=\frac{6}{1}=6$

4. $2\frac{2}{5}\times 3\frac{1}{3}=\frac{12}{5}\times\frac{10}{3}=\frac{\cancel{12}^{4}}{\cancel{5}_{1}}\times\frac{\cancel{10}^{2}}{\cancel{3}_{1}}=\frac{4\times 2}{1}=\frac{8}{1}=8$

5. $5\frac{1}{3}\times 7\frac{1}{2}=\frac{16}{3}\times\frac{15}{2}=\frac{\cancel{16}^{8}}{\cancel{3}_{1}}\times\frac{\cancel{15}^{5}}{\cancel{2}_{1}}=\frac{8\times 5}{1}=\frac{40}{1}=40$

6. $3\frac{1}{8}\times 2\frac{2}{15}=\frac{\cancel{25}^{5}}{8}\times\frac{32}{\cancel{15}_{3}}=\frac{5}{\cancel{8}_{1}}\times\frac{\cancel{32}^{4}}{3}=\frac{5\times 4}{3}=\frac{20}{3}=6\frac{2}{3}$

7. $2\frac{7}{9}\times 2\frac{7}{10}=\frac{25}{9}\times\frac{27}{10}=\frac{\cancel{25}^{5}}{9}\times\frac{27}{\cancel{10}_{2}}=\frac{5}{\cancel{9}_{1}}\times\frac{\cancel{27}^{3}}{2}=\frac{5\times 3}{2}=\frac{15}{2}=7\frac{1}{2}$

8. $6\frac{3}{10}\times 3\frac{3}{14}==\frac{63}{10}\times\frac{45}{14}=\frac{\cancel{63}^{9}}{\cancel{10}_{2}}\times\frac{\cancel{45}^{9}}{\cancel{14}_{2}}=\frac{9\times 9}{2\times 2}=\frac{81}{4}=20\frac{1}{4}$

9. $1\frac{5}{7}\times 3\frac{1}{9}=\frac{12}{7}\times\frac{28}{9}=\frac{\cancel{12}^{4}}{7_{1}}\times\frac{\cancel{28}^{4}}{\cancel{9}_{3}}=\frac{4\times 4}{3}=\frac{16}{3}=5\frac{1}{3}$

10. $3\frac{3}{4}\times 3\frac{4}{6}=\frac{15}{4}\times\frac{22}{6}=\frac{\cancel{15}^{5}}{4}\times\frac{22}{\cancel{6}_{2}}=\frac{5}{\cancel{4}_{2}}\times\frac{\cancel{22}^{11}}{2}=\frac{5\times 11}{2\times 2}=\frac{55}{4}=13\frac{3}{4}$

11. $2\frac{2}{3}\times 1\frac{5}{6}=\frac{8}{3}\times\frac{11}{6}=\frac{\cancel{8}^{4}}{3}\times\frac{11}{\cancel{6}_{3}}=\frac{4\times 11}{3\times 3}=\frac{44}{9}=4\frac{8}{9}$

12. $6\frac{1}{4}\times 2\frac{2}{5}=\frac{25}{4}\times\frac{12}{5}=\frac{\cancel{25}^{5}}{\cancel{4}_{1}}\times\frac{\cancel{12}^{3}}{\cancel{5}_{1}}=\frac{5\times 3}{1}=\frac{15}{1}=15$

13. $5\frac{3}{5}\times 1\frac{3}{7}=\frac{28}{5}\times\frac{10}{7}=\frac{\cancel{28}^{4}}{\cancel{5}_{1}}\times\frac{\cancel{10}^{2}}{7_{1}}=\frac{4\times 2}{1}=\frac{8}{1}=8$

14. $8\frac{2}{3}\times 5\frac{1}{4}=\frac{\cancel{26}^{13}}{\cancel{3}_{1}}\times\frac{\cancel{21}^{7}}{\cancel{4}_{2}}=\frac{13\times 7}{1\times 2}=\frac{91}{2}=45\frac{1}{2}$

15. $4\frac{1}{5}\times 1\frac{1}{14}=\frac{21}{5}\times\frac{15}{14}=\frac{\cancel{21}^{3}}{\cancel{5}_{1}}\times\frac{\cancel{15}^{3}}{\cancel{14}_{2}}=\frac{3\times 5}{1\times 2}=\frac{15}{2}=7\frac{1}{2}$