

Multiplying Fractions and Mixed Numbers

Grade 5 • MATH • Multiplying fractions and mixed numbers and simplifying answers • Standards: 5.NF.B.4

Multiply these fractions and mixed numbers. Remember to convert mixed numbers to improper fractions first, then multiply the numerators together and the denominators together. Simplify your answer to lowest terms.

1. $\frac{1}{2} \times \frac{1}{3} =$

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

3. $\frac{3}{4} \times \frac{2}{3} =$

4. $\frac{1}{6} \times \frac{3}{5} =$

5. $\frac{4}{5} \times \frac{5}{8} =$

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

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

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

9. $1 \frac{1}{3} \times \frac{3}{4} =$

10. $2 \frac{1}{2} \times \frac{2}{5} =$

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

12. $1 \frac{1}{4} \times 1 \frac{1}{5} =$

13. $2 \frac{2}{3} \times 1 \frac{1}{8} =$

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

Answer Key — Multiplying Fractions and Mixed Numbers

For the teacher / parent. Do not distribute with the worksheet.

1. $\frac{1}{6}$
2. $\frac{1}{10}$ ($2 \times 1 = 2$ and $5 \times 4 = 20$, then simplify $\frac{2}{20}$ to $\frac{1}{10}$)
3. $\frac{1}{2}$ ($3 \times 2 = 6$ and $4 \times 3 = 12$, then simplify $\frac{6}{12}$ to $\frac{1}{2}$)
4. $\frac{1}{10}$ ($1 \times 3 = 3$ and $6 \times 5 = 30$, then simplify $\frac{3}{30}$ to $\frac{1}{10}$)
5. $\frac{1}{2}$ ($4 \times 5 = 20$ and $5 \times 8 = 40$, then simplify $\frac{20}{40}$ to $\frac{1}{2}$)
6. $\frac{1}{5}$ ($2 \times 3 = 6$ and $3 \times 10 = 30$, then simplify $\frac{6}{30}$ to $\frac{1}{5}$)
7. $\frac{1}{2}$ (Convert $1 \frac{1}{2}$ to $\frac{3}{2}$, then $\frac{3}{2} \times \frac{1}{3} = \frac{3}{6} = \frac{1}{2}$)
8. $\frac{1}{2}$ (Convert $1 \frac{1}{4}$ to $\frac{5}{4}$, then $\frac{2}{5} \times \frac{5}{4} = \frac{10}{20} = \frac{1}{2}$)
9. 1 (Convert $1 \frac{1}{3}$ to $\frac{4}{3}$, then $\frac{4}{3} \times \frac{3}{4} = \frac{12}{12} = 1$)
10. 1 (Convert $2 \frac{1}{2}$ to $\frac{5}{2}$, then $\frac{5}{2} \times \frac{2}{5} = \frac{10}{10} = 1$)
11. 1 (Convert $1 \frac{2}{3}$ to $\frac{5}{3}$, then $\frac{5}{3} \times \frac{3}{5} = \frac{15}{15} = 1$)
12. $1 \frac{1}{2}$ (Convert to $\frac{5}{4} \times \frac{6}{5} = \frac{30}{20} = \frac{3}{2} = 1 \frac{1}{2}$)
13. 3 (Convert to $\frac{8}{3} \times \frac{9}{8} = \frac{72}{24} = 3$)
14. 4 (Convert to $\frac{7}{4} \times \frac{16}{7} = \frac{112}{28} = 4$)