Multiplying Mixed Numbers

Name: _____	Date: _____	Score: _____ / 24

Quick Review

To multiply mixed numbers, **first change each one into an improper fraction**. For $1\frac{1}{2}$: multiply $1 \times 2 = 2$, add the 1 to get 3, so it becomes $\frac{3}{2}$. Then multiply the fractions the usual way — numerators times numerators, denominators times denominators. **Cancel** common factors to keep the numbers small if you can. Finally, **convert the answer back** to a mixed number and simplify. Never try to multiply the whole parts and fraction parts separately — that does not work!

◇ **Example:** Multiply $1\frac{1}{2} \times 1\frac{1}{3}$.

⇒ Turn each mixed number into an improper fraction. For $1\frac{1}{2}$: $1 \times 2 + 1 = 3$, so $\frac{3}{2}$. For $1\frac{1}{3}$: $1 \times 3 + 1 = 4$, so $\frac{4}{3}$. Now multiply across: $\frac{3\times4}{2\times3} = \frac{12}{6}$. Simplify: $\frac{12}{6} = 2$. So the product is exactly 2.

Answer: 2

PRACTICE

Multiply. Write each answer in simplest form.

1. $1\frac{1}{2} \times 1\frac{1}{3}$ _____
2. $1\frac{3}{4} \times 1\frac{1}{7}$ _____
3. $2\frac{1}{2} \times 1\frac{1}{5}$ _____
4. $2\frac{1}{3} \times 2\frac{1}{4}$ _____
5. $2\frac{3}{4} \times 2$ _____
6. $2\frac{3}{5} \times 3\frac{1}{3}$ _____
7. $1\frac{1}{4} \times 1\frac{3}{5}$ _____
8. $3\frac{1}{2} \times 1\frac{2}{7}$ _____
9. $1\frac{2}{3} \times 1\frac{1}{5}$ _____
10. $2\frac{1}{4} \times 1\frac{1}{3}$ _____
11. $1\frac{1}{6} \times 2\frac{2}{7}$ _____
12. $3\frac{1}{3} \times 1\frac{1}{2}$ _____
13. $2\frac{2}{5} \times 1\frac{1}{4}$ _____
14. $1\frac{1}{8} \times 1\frac{1}{3}$ _____
15. $4\frac{1}{2} \times 1\frac{1}{3}$ _____
16. $2\frac{1}{2} \times 2\frac{2}{5}$ _____
17. $1\frac{5}{6} \times 1\frac{1}{2}$ _____
18. $3\frac{1}{5} \times 1\frac{1}{4}$ _____
19. $2\frac{1}{6} \times 1\frac{1}{5}$ _____
20. $1\frac{3}{4} \times 2\frac{2}{7}$ _____

♦ Word Problems

21. A bag of rice weighs $2\frac{1}{2}$ pounds. A chef buys $1\frac{1}{5}$ bags. How many pounds of rice is that? _____
22. One lap of a track is $1\frac{1}{4}$ miles. A runner completes $1\frac{3}{5}$ laps. How far did the runner go? _____
23. A recipe needs $2\frac{1}{4}$ cups of flour. Dana makes $1\frac{1}{3}$ batches. How much flour does she need? _____
24. A garden bed is $3\frac{1}{3}$ feet wide. A second bed is $1\frac{1}{2}$ times as wide. How wide is the second bed? _____

Answer Keys

1. $\boxed{2}$
2. $\boxed{2}$
3. $\boxed{3}$
4. $\boxed{5\frac{1}{4}}$
5. $\boxed{5\frac{1}{2}}$
6. $\boxed{8\frac{2}{3}}$
7. $\boxed{2}$
8. $\boxed{4\frac{1}{2}}$
9. $\boxed{2}$
10. $\boxed{3}$
11. $\boxed{2\frac{2}{3}}$
12. $\boxed{5}$
13. $\boxed{3}$
14. $\boxed{1\frac{1}{2}}$
15. $\boxed{6}$
16. $\boxed{6}$
17. $\boxed{2\frac{3}{4}}$
18. $\boxed{4}$
19. $\boxed{2\frac{3}{5}}$
20. $\boxed{4}$
21. $\boxed{3 \text{ pounds}}$
22. $\boxed{2 \text{ miles}}$
23. $\boxed{3 \text{ cups}}$
24. $\boxed{5 \text{ feet}}$

Step-by-Step Explanations

1. $\frac{3}{2} \times \frac{4}{3} = \frac{12}{6} = 2.$
2. $\frac{7}{4} \times \frac{8}{7} = \frac{56}{28} = 2.$
3. $\frac{5}{2} \times \frac{6}{5} = \frac{30}{10} = 3.$
4. $\frac{7}{3} \times \frac{9}{4} = \frac{63}{12} = \frac{21}{4} = 5\frac{1}{4}.$
5. $\frac{11}{4} \times \frac{2}{1} = \frac{22}{4} = \frac{11}{2} = 5\frac{1}{2}.$
6. $\frac{13}{5} \times \frac{10}{3} = \frac{130}{15} = \frac{26}{3} = 8\frac{2}{3}.$
7. $\frac{5}{4} \times \frac{8}{5} = \frac{40}{20} = 2.$
8. $\frac{7}{2} \times \frac{9}{7} = \frac{63}{14} = \frac{9}{2} = 4\frac{1}{2}.$
9. $\frac{5}{3} \times \frac{6}{5} = \frac{30}{15} = 2.$
10. $\frac{9}{4} \times \frac{4}{3} = \frac{36}{12} = 3.$
11. $\frac{7}{6} \times \frac{16}{7} = \frac{112}{42} = \frac{8}{3} = 2\frac{2}{3}.$
12. $\frac{10}{3} \times \frac{3}{2} = \frac{30}{6} = 5.$
13. $\frac{12}{5} \times \frac{5}{4} = \frac{60}{20} = 3.$
14. $\frac{9}{8} \times \frac{4}{3} = \frac{36}{24} = \frac{3}{2} = 1\frac{1}{2}.$
15. $\frac{9}{2} \times \frac{4}{3} = \frac{36}{6} = 6.$
16. $\frac{5}{2} \times \frac{12}{5} = \frac{60}{10} = 6.$
17. $\frac{11}{6} \times \frac{3}{2} = \frac{33}{12} = \frac{11}{4} = 2\frac{3}{4}.$
18. $\frac{16}{5} \times \frac{5}{4} = \frac{80}{20} = 4.$
19. $\frac{13}{6} \times \frac{6}{5} = \frac{78}{30} = \frac{13}{5} = 2\frac{3}{5}.$
20. $\frac{7}{4} \times \frac{16}{7} = \frac{112}{28} = 4.$
21. $\frac{5}{2} \times \frac{6}{5} = \frac{30}{10} = 3$ pounds.
22. $\frac{5}{4} \times \frac{8}{5} = \frac{40}{20} = 2$ miles.
23. $\frac{9}{4} \times \frac{4}{3} = \frac{36}{12} = 3$ cups.
24. $\frac{10}{3} \times \frac{3}{2} = \frac{30}{6} = 5$ feet.

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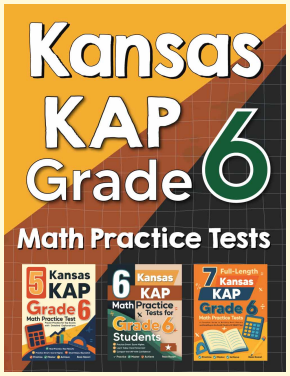

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