Dividing fractions

Mana Maths

Te reo Māori terms

tau huripoki
reciprocal
Open in Te Aka

tau whakawehe
division
Open in Te Aka

taurunga
numerator
Open in Te Aka

tauraro
denominator
Open in Te Aka

Foundation

1. $\frac{1}{2} \div \frac{1}{4}$.

2. $\frac{3}{4} \div \frac{1}{2}$.

3. $\frac{2}{3} \div \frac{1}{3}$.

4. $\frac{5}{6} \div \frac{5}{6}$.

5. $\frac{3}{5} \div \frac{1}{5}$.

6. $\frac{7}{8} \div \frac{1}{2}$.

7. $\frac{4}{9} \div \frac{2}{9}$.

8. $\frac{5}{12} \div \frac{5}{12}$.

9. $2 \div \frac{1}{2}$.

10. $3 \div \frac{1}{3}$.

11. $4 \div \frac{1}{4}$.

12. $\frac{1}{2} \div 2$.

13. $\frac{3}{4} \div 3.$

14. $\frac{5}{6} \div 5.$

15. $\frac{2}{5} \div \frac{1}{5}.$

16. $\frac{9}{10} \div \frac{3}{10}.$

Proficient

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

2. $\frac{5}{6} \div \frac{1}{3}$.

3. $\frac{7}{8} \div \frac{7}{16}$.

4. $\frac{4}{5} \div \frac{2}{15}$.

5. $\frac{9}{10} \div \frac{3}{5}$.

6. $\frac{11}{12} \div \frac{1}{6}$.

7. $6 \div \frac{3}{4}$.

8. $8 \div \frac{2}{3}$.

9. $\frac{3}{5} \div 6$.

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

11. Fill in the blank: $\frac{2}{3} \div \frac{\square}{5} = \frac{10}{9}$.

12. Fill in the blank: $\frac{\square}{4} \div \frac{1}{2} = \frac{3}{2}$.

13. Is $\frac{3}{4} \div \frac{1}{2} = \frac{3}{8}$ correct?

14. Is $5 \div \frac{1}{5} = 25$ correct?

15. Which is greater: $\frac{3}{4} \div \frac{1}{2}$ or $\frac{3}{4} \times \frac{1}{2}$?

16. $\frac{5}{14} \div \frac{15}{28}$.

17. $\frac{13}{15} \div \frac{26}{45}$.

18. Explain in one short sentence why dividing by $\frac{1}{2}$ makes a positive number larger.

Excellence

1. $1\frac{1}{2} \div \frac{3}{4}$.

2. $2\frac{1}{4} \div \frac{3}{8}$.

3. $\frac{5}{6} \div \frac{10}{9}$.

4. $\frac{7}{12} \div \frac{14}{15}$.

5. A student says $\frac{4}{5} \div \frac{2}{3} = \frac{8}{15}$. Are they correct? Explain.

6. A jug is $\frac{3}{4}$ full. Each pour uses $\frac{1}{8}$ of the jug. How many pours is that?

7. Find a fraction so that $\frac{2}{3} \div \square = \frac{10}{9}$.

8. Fill in both blanks: $\frac{\square}{6} \div \frac{2}{3} = \frac{5}{\square}$.

9. Which is greater: $\frac{5}{6} \div \frac{1}{3}$ or $\frac{3}{4} \div \frac{1}{2}$?

10. Is $\frac{6}{7} \div \frac{3}{14} = 4$ correct? Explain.

11. A rope is $\frac{5}{6}$ m long. Each piece is $\frac{5}{18}$ m long. How many pieces?

12. Complete: if $\frac{3}{5} \div \frac{m}{2} = \frac{4}{5}$, then $m = \_\_\_\_$.

13. Write $3 \div \frac{4}{15}$ as a single simplified fraction.

14. A batch uses $\frac{2}{3}$ cup of rice. You have $4\frac{2}{3}$ cups. How many batches?

15. Which does not belong: $\frac{1}{2} \div \frac{1}{4}$, $2 \div \frac{1}{2}$, $\frac{3}{4} \div \frac{3}{8}$, $\frac{5}{6} \div \frac{5}{6}$?

16. Explain why $\frac{4}{9} \div \frac{2}{3}$ equals $\frac{4}{9} \times \frac{3}{2}$.