Simplifying Fractions

Mana Maths

Te reo Māori terms

rūnā
simplify
Open in Te Aka

tauwehe
factor
Open in Te Aka

taurunga
numerator
Open in Te Aka

tauraro
denominator
Open in Te Aka

Foundation

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

2. Simplify $\frac{3}{6}$.

3. Simplify $\frac{4}{8}$.

4. Simplify $\frac{5}{10}$.

5. Simplify $\frac{6}{12}$.

6. Simplify $\frac{8}{12}$.

7. Simplify $\frac{9}{12}$.

8. Simplify $\frac{10}{15}$.

9. Simplify $\frac{12}{16}$.

10. Simplify $\frac{14}{21}$.

11. Simplify $\frac{15}{20}$.

12. Simplify $\frac{16}{24}$.

13. Simplify $\frac{18}{24}$.

14. Simplify $\frac{20}{25}$.

15. Is $\frac{7}{8}$ already in simplest form?

16. Is $\frac{9}{10}$ already in simplest form?

Proficient

1. Simplify $\frac{18}{27}$.

2. Simplify $\frac{24}{36}$.

3. Simplify $\frac{28}{42}$.

4. Simplify $\frac{32}{48}$.

5. Simplify $\frac{35}{49}$.

6. Simplify $\frac{45}{60}$.

7. Simplify $\frac{54}{72}$.

8. Simplify $\frac{63}{81}$.

9. Fill in the blank: $\frac{12}{20} = \frac{\square}{5}$.

10. Fill in the blank: $\frac{27}{36} = \frac{3}{\square}$.

11. Is $\frac{14}{20} = \frac{7}{10}$ correct?

12. Is $\frac{21}{28} = \frac{2}{3}$ correct?

13. Which is simpler: $\frac{16}{20}$ or $\frac{4}{5}$?

14. Simplify $\frac{42}{56}$.

15. Simplify $\frac{30}{45}$.

16. Simplify $\frac{48}{64}$.

17. Is $\frac{5}{12}$ already in simplest form?

18. Explain in one short sentence how you know $\frac{6}{9}$ is not in simplest form.

Excellence

1. Is $\frac{18}{24} = \frac{9}{12}$ fully simplified? Explain.

2. Is $\frac{14}{35} = \frac{1}{3}$ correct? Explain.

3. Fill in both blanks: $\frac{\square}{18} = \frac{2}{3} = \frac{\square}{\square}$.

4. Fill in both blanks: $\frac{\square}{28} = \frac{3}{7} = \frac{24}{\square}$.

5. Which does not belong: $\frac{6}{9}$, $\frac{8}{12}$, $\frac{10}{15}$, $\frac{5}{8}$?

6. Which is greater: simplified $\frac{18}{30}$ or simplified $\frac{14}{20}$?

7. Explain why $\frac{24}{32}$ and $\frac{3}{4}$ are equivalent.

8. Write $\frac{15}{25}$ in simplest form.

9. Write $\frac{21}{28}$ in simplest form.

10. Complete: $\frac{a}{b} = \frac{16}{24}$, so simplest form is _____.

11. Complete: $\frac{x}{y} = \frac{27}{45}$, so simplest form is _____.

12. Is $\frac{36}{54} = \frac{2}{3}$ correct? What would you divide by?

13. Is $\frac{22}{30} = \frac{11}{15}$ fully simplified? Explain.

14. Write a fraction equal to $\frac{4}{5}$ that is not simplified, then simplify it.

15. Write a fraction equal to $\frac{3}{7}$ with denominator 35. Is it simplified?

16. Explain why equivalent fractions are not always in simplest form.