Reciprocals

Mana Maths

Te reo Māori terms

tau huripoki
reciprocal
Open in Te Aka

hautau
fraction
Open in Te Aka

taurunga
numerator
Open in Te Aka

tauraro
denominator
Open in Te Aka

Foundation

1. Find the reciprocal of $\frac{1}{2}$.

2. Find the reciprocal of $\frac{1}{3}$.

3. Find the reciprocal of $\frac{2}{5}$.

4. Find the reciprocal of $\frac{3}{4}$.

5. Find the reciprocal of $\frac{4}{7}$.

6. Find the reciprocal of $\frac{5}{6}$.

7. Find the reciprocal of 2.

8. Find the reciprocal of 3.

9. Find the reciprocal of 4.

10. Find the reciprocal of 5.

11. Find the reciprocal of $\frac{7}{8}$.

12. Find the reciprocal of $\frac{9}{10}$.

13. Find the reciprocal of $\frac{3}{8}$.

14. Find the reciprocal of $\frac{5}{12}$.

15. Find the reciprocal of 6.

16. Find the reciprocal of 10.

Proficient

1. Find the reciprocal of $\frac{7}{3}$.

2. Find the reciprocal of $\frac{9}{4}$.

3. Find the reciprocal of $\frac{11}{5}$.

4. Find the reciprocal of $\frac{8}{11}$.

5. Find the reciprocal of 12.

6. Find the reciprocal of 15.

7. Find the reciprocal of $\frac{13}{9}$.

8. Find the reciprocal of $\frac{14}{5}$.

9. Fill in the blank: the reciprocal of $\frac{4}{9}$ is $\frac{\square}{\square}$.

10. Fill in the blank: the reciprocal of 7 is $\frac{\square}{\square}$.

11. Are $\frac{2}{7}$ and $\frac{7}{2}$ reciprocals?

12. Are $\frac{3}{5}$ and $\frac{5}{3}$ reciprocals?

13. Is the reciprocal of $\frac{5}{8}$ equal to $\frac{8}{5}$?

14. Is the reciprocal of 9 equal to $\frac{1}{9}$?

15. Which is greater: the reciprocal of $\frac{2}{9}$ or the reciprocal of $\frac{2}{7}$?

16. Which is greater: the reciprocal of 3 or the reciprocal of 5?

17. Find the reciprocal of $\frac{17}{12}$.

18. Explain in one short sentence why the reciprocal of 1 is still 1.

Excellence

1. A student says the reciprocal of $\frac{4}{7}$ is $\frac{7}{4}$. Are they correct? Explain.

2. A student says the reciprocal of 6 is 6. Are they correct? Explain.

3. Fill in both blanks: $\frac{\square}{7}$ and $\frac{7}{\square}$ are reciprocals.

4. Fill in both blanks: if $\frac{5}{8}$ and $\frac{a}{b}$ are reciprocals, then $a =$ ____ and $b =$ ____.

5. Which pair are reciprocals: $\frac{3}{8}$ and $\frac{8}{3}$, or $\frac{3}{8}$ and $\frac{3}{8}$?

6. Write a number whose reciprocal is $\frac{4}{9}$.

7. Write a fraction whose reciprocal is 3.

8. Complete: the reciprocal of $\frac{m}{9}$ is $\frac{9}{m}$. If the reciprocal is $\frac{9}{4}$, then $m =$ ____.

9. If two numbers are reciprocals, what is their product?

10. Are $\frac{6}{11}$ and $\frac{11}{6}$ reciprocals? How do you know?

11. Which does not belong: $\frac{2}{3}, \frac{3}{2}, \frac{4}{5}, \frac{5}{4}$?

12. The reciprocal of a number is $\frac{7}{12}$. What is the number?

13. The reciprocal of a number is 5. What is the number?

14. A student writes $\frac{2}{9} \to \frac{9}{2}$ and $9 \to 9$. Explain why only one of these is correct.

15. Find a number whose reciprocal is smaller than $\frac{1}{4}$.

16. Explain why a number and its reciprocal switch places above and below the fraction bar.