



Dividing Expressions

Mana Maths

Te reo Māori terms



tau whakawehe

division

[Open in Te Aka](#)

otinga

quotient

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taurangi

variable

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rūnā

simplify

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Foundation

1. $6a \div 3.$

2. $8b \div 4.$

3. $10x \div 5.$

4. $12y \div 6.$

5. $14m \div 7.$

6. $18p \div 9.$

7. $20q \div 5.$

8. $24r \div 8.$

9. $15s \div 3.$

10. $21t \div 7.$

11. $16u \div 2.$

12. $27v \div 9.$

13. $12x^2 \div 3x.$

14. $18y^2 \div 6y.$

15. $20a^2 \div 5a.$

16. $28b^2 \div 7b.$

Proficient

1. $18a^2 \div 3a.$

2. $24b^3 \div 6b.$

3. $30x^2 \div 5x.$

4. $42y^3 \div 7y^2.$

5. $36m^2 \div 9m.$

6. $45p^2 \div 5p.$

7. $48q^3 \div 6q.$

8. $56r^2 \div 8r.$

9. $63s^2 \div 9s.$

10. $72t^3 \div 8t^2.$

11. Fill in the blank:
 $\square x \div 4 = 5x..$

12. Fill in the blank:
 $18y^2 \div \square y = 3y..$

- 13.** Fill in the blank:
 $24a^3 \div 6a = \square a^2$..
- 14.** Is $12x \div 3 = 4x$ correct?
- 15.** Is $20y^2 \div 5y = 4y$ correct?
- 16.** Which is greater:
 $24m \div 6$ or
 $18m \div 3$?

Excellence

1. A student says $12x \div 4 = 3$. Are they correct? Explain.

2. A student says $18a^2 \div 6a = 3a$. Are they correct? Explain.

3. A student says $20b^3 \div 5b = 4$. Are they correct? Explain.

4. $54x^3 \div 9x$.

5. $64y^4 \div 8y^2$.

6. $75m^3 \div 15m$.

7. $81p^2 \div 9p$.

8. $96q^4 \div 12q^2$.

9. Fill in the blank: $\square a^2 \div 5a =$

10. Fill in the blank: $48b^3 \div \square b = 16b^2$. Fill in the blank: $63x^2 \div 9x =$ 12. Which is greater: $36m^2 \div 6m$ or $45m^2 \div 9m$? Show enough working.

- 13.** Which is greater: $56r^3 \div 8r$ or $42r^2 \div 6$? Show enough working.
- 14.** Write two different division expressions that both simplify to $4x$.
- 15.** Find a missing divisor: $32y^2 \div \square y = 8y$.
- 16.** Find a missing dividend: $\square p^2 \div 7p = 6p$.
- 17.** Explain why $a^3 \div a = a^2$.
- 18.** A rectangle has area $24x^2$ and width $6x$. Write an expression for its length.