Multiplying Expressions (no powers)

Mana Maths

Te reo Māori terms

kīanga
expression
Open in Te Aka

tau whakarea
multiplication
Open in Te Aka

taurangi
variable
Open in Te Aka

taiapa
bracket
Open in Te Aka

Foundation

1. $2 \times a.$

2. $3 \times b.$

3. $4 \times x.$

4. $5 \times y.$

5. $6 \times 2a.$

6. $3 \times 4b.$

7. $2a \times 3.$

8. $5c \times 2.$

9. $4x \times 5y.$

10. $2m \times 3n.$

11. $7p \times 2q.$

12. $3r \times 6s.$

13. $10 \times t$.

14. $8 \times 3k$.

15. $9u \times 4v$.

16. $12 \times 2w$.

17. $5a \times 5b$.

18. $11 \times z$.

Proficient

1. $7 \times 3a$.

2. $12 \times 4b$.

3. $9c \times 5$.

4. $8d \times 7e$.

5. $6f \times 9g$.

6. $14 \times 2h$.

7. $11j \times 3k$.

8. $15m \times 4$.

9. $13p \times 2q$.

10. $16r \times 5s$.

11. Fill in the blank:
$\square \times a = 9a$.

12. Fill in the blank:
$4b \times \square = 20b$.

13. Fill in the blank: $3c \times 6d = \square cd$.

14. Is $4x \times 3y = 7xy$ correct?

15. Is $5a \times 2 = 10a$ correct?

16. Which is greater: $3m \times 4n$ or $2m \times 7n$?

17. Write $6 \times y$ in simplified algebra form.

18. Write $9a \times 2b$ in simplified algebra form.

Excellence

1. A student says $4a \times 3b = 12ab$. Are they correct? Explain.

2. A student says $5x \times 2y = 10xy$. Are they correct? Explain.

3. A student says $6m \times 4 = 10m$. Are they correct? Explain.

4. Fill in the blank: $\square p \times 3q = 21pq$.

5. Fill in the blank: $7r \times \square s = 35rs$.

6. Fill in the blank: $\square \times 4t = 28t$.

7. Complete: $8a \times 6b =$ _____.

8. Complete: $12c \times 5 =$ _____.

9. Which is greater: $4x \times 9y$ or $6x \times 5y$? Show enough working to justify.

10. Which is greater: $7a \times 8$ or $9a \times 6$? Show enough working to justify.

11. Write two different multiplications that both simplify to $18ab$.

12. Write two different multiplications that both simplify to $24x$.

13. Find a missing factor: $\square \times 5m = 45m$.

14. Find a missing factor: $9p \times \square = 63pq$.

15. Explain why $3a \times 4b$ and $4b \times 3a$ have the same simplified answer.

16. Is $2k \times 3k = 6k$ correct in this no-powers worksheet? Explain what should happen or why it is outside todayś rule.

17. Compare $11u \times 2v$ with $7u \times 3v$. Which product is greater?

18. A rectangle has side lengths $3x$ and $5y$. Write an expression for its area.