



Area of trapezium

Mana Maths

Te reo Māori terms



taparara

trapezium

Open in Te Aka

rārangi whakarara

parallel lines

Open in Te Aka

teitei

height

Open in Te Aka

toharite

average

Open in Te Aka

Area of trapezium — Foundation

1. Identify and circle the two parallel sides in the drawn trapezium.
2. Calculate the area of a trapezium with parallel sides of 7 m and 18 m, and a perpendicular height of 6 m.
3. Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
4. Identify and circle the two parallel sides in the drawn trapezium.
5. Calculate the area of a trapezium with parallel sides of 3 m and 15 m, and a perpendicular height of 12 m.
6. Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."

- 7.** Identify and circle the two parallel sides in the drawn trapezium.
- 8.** Calculate the area of a trapezium with parallel sides of 1 m and 13 m, and a perpendicular height of 12 m.
- 9.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
- 10.** Identify and circle the two parallel sides in the drawn trapezium.
- 11.** Calculate the area of a trapezium with parallel sides of 20 m and 16 m, and a perpendicular height of 10 m.
- 12.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."

13. Identify and circle the two parallel sides in the drawn trapezium.

14. Calculate the area of a trapezium with parallel sides of 15 m and 5 m, and a perpendicular height of 10 m.

Area of trapezium — Proficient

1. Identify and circle the two parallel sides in the drawn trapezium.
2. Calculate the area of a trapezium with parallel sides of 7.8 m and 14.9 m, and a perpendicular height of 3.4 m.
3. Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
4. A trapezium has parallel sides 2 m and 10 m. Its area is 36.0 m^2 . Find its perpendicular height.
5. Identify and circle the two parallel sides in the drawn trapezium.
6. Calculate the area of a trapezium with parallel sides of 9.8 m and 5.4 m, and a perpendicular height of 3.2 m.

- 7.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
- 8.** A trapezium has parallel sides 5 m and 12 m. Its area is 136.0 m^2 . Find its perpendicular height.
- 9.** Identify and circle the two parallel sides in the drawn trapezium.
- 10.** Calculate the area of a trapezium with parallel sides of 4.4 m and 10.4 m, and a perpendicular height of 5.8 m.
- 11.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
- 12.** A trapezium has parallel sides 5 m and 3 m. Its area is 52.0 m^2 . Find its perpendicular height.

Area of trapezium — Excellence

1. Identify and circle the two parallel sides in the drawn trapezium.
2. Calculate the area of a trapezium with parallel sides of 16 m and 3 m, and a perpendicular height of 7 m.
3. Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
4. A shape consists of a trapezium with parallel sides 7 m and 5 m, height 18 m, attached to a rectangle of length 12 m and width 3 m. Find the total area.
5. The parallel sides of a trapezium are x m and $2x$ m, where $x = 20$. The perpendicular height is $x + 2$ m. Calculate the area.
6. Identify and circle the two parallel sides in the drawn trapezium.

- 7.** Calculate the area of a trapezium with parallel sides of 6 m and 15 m, and a perpendicular height of 4 m.
- 8.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
- 9.** A shape consists of a trapezium with parallel sides 7 m and 20 m, height 16 m, attached to a rectangle of length 11 m and width 7 m. Find the total area.
- 10.** The parallel sides of a trapezium are x m and $2x$ m, where $x = 6$. The perpendicular height is $x + 2$ m. Calculate the area.
- 11.** Identify and circle the two parallel sides in the drawn trapezium.
- 12.** Calculate the area of a trapezium with parallel sides of 12 m and 1 m, and a perpendicular height of 19 m.

- 13.** Explain why the area formula for a trapezium can be thought of as "the average of the parallel sides multiplied by the height."
- 14.** A shape consists of a trapezium with parallel sides 5 m and 16 m, height 8 m, attached to a rectangle of length 12 m and width 5 m. Find the total area.
- 15.** The parallel sides of a trapezium are x m and $2x$ m, where $x = 15$. The perpendicular height is $x + 2$ m. Calculate the area.
- 16.** Identify and circle the two parallel sides in the drawn trapezium.