

126. Calculating the Area of Parallelograms and Trapeziums

Practice Questions

1. What is the formula for the area of a parallelogram?
2. What is the formula for the area of a trapezium?
3. A parallelogram has a base of 8 cm and a height of 5 cm. Find its area.
4. A parallelogram has a base of 12 cm and a height of 7 cm. Find its area.
5. A trapezium has parallel sides of 10 cm and 6 cm with a height of 4 cm. Find its area.
6. A trapezium has parallel sides of 9 cm and 5 cm and a height of 3 cm. Find its area.
7. A parallelogram has a base of 15 cm and a height of 6 cm. Find its area.
8. A trapezium has bases 13 cm and 7 cm, with a height of 5 cm. Find its area.
9. A parallelogram has a base of 20 cm and a height of 10 cm. Find its area.
10. A trapezium has bases 8 cm and 12 cm, with a height of 9 cm. Find its area.

Scenario Questions

1. A garden bed is shaped like a parallelogram with a base of 5 m and a height of 2 m. Find its area.
2. A bridge platform is a trapezium with bases of 15 m and 10 m and a height of 6 m. Find the area.
3. A house roof is a parallelogram with a base of 8 m and a height of 3 m. Find the roof's area.
4. A driveway is shaped like a trapezium with parallel sides of 12 m and 18 m, and a height of 5 m. Find its area.
5. A window is a parallelogram with a base of 1.2 m and a height of 0.8 m. Find the glass area.
6. A ramp surface is a parallelogram with a base of 4 m and a height of 1.5 m. Find its area.
7. A farm field is shaped like a trapezium with parallel sides of 30 m and 20 m and a height of 12 m. Find its area.
8. A painting canvas is a parallelogram with a base of 50 cm and a height of 40 cm. Find its area.
9. A road widening project uses a trapezium-shaped section with bases of 25 m and 40 m and a height of 10 m. Find its area.
10. A solar panel is a parallelogram with a base of 2.5 m and a height of 1.2 m. Find its area.

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Practice Questions

1. Area of a parallelogram: $\text{Base} \times \text{Height}$
2. Area of a trapezium: $\frac{1}{2} \times (\text{Sum of parallel sides}) \times \text{Height}$
3. Area: 40 cm^2
4. Area: 84 cm^2
5. Area: 32 cm^2
6. Area: 21 cm^2
7. Area: 90 cm^2
8. Area: 50 cm^2
9. Area: 200 cm^2
10. Area: 90 cm^2

Scenario Questions

1. Area: 10 m^2
2. Area: 75 m^2
3. Area: 24 m^2
4. Area: 75 m^2
5. Area: 0.96 m^2
6. Area: 6 m^2
7. Area: 300 m^2
8. Area: 2000 cm^2
9. Area: 325 m^2
10. Area: 3 m^2

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Answers