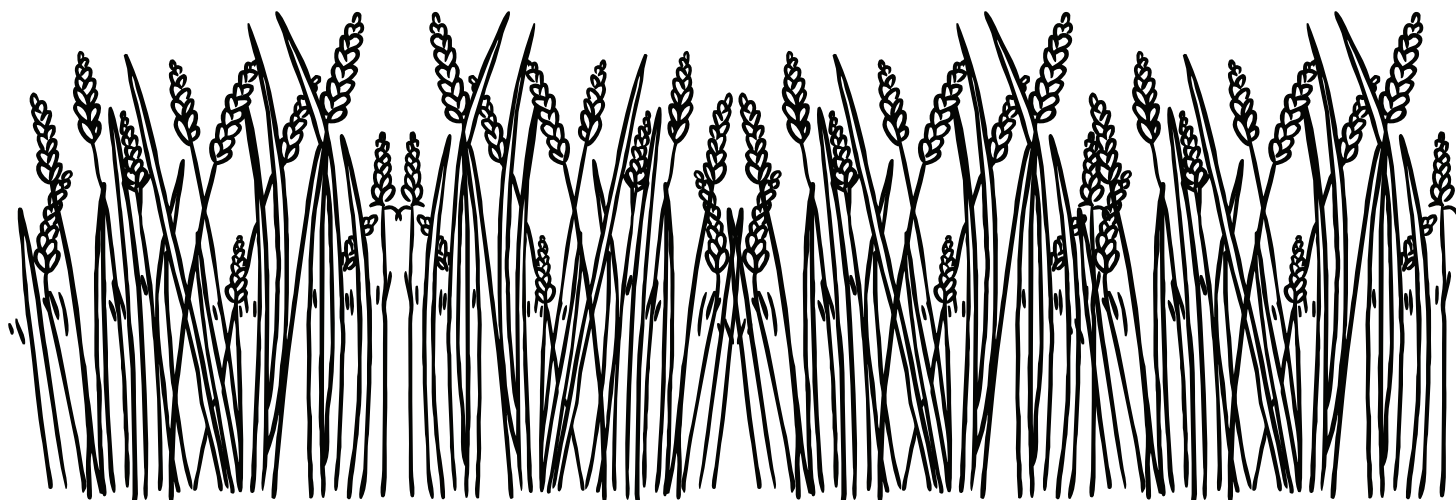


# Area Word Problems

1. Each table in a classroom is 100cm long and 50cm wide. What is the area of each table? There are 16 tables in a classroom. What is the total area of the tables in the classroom in square metres? Tip - Convert the lengths of the table to metres before calculating the area.
2. An artificial football pitch is 90 metres long and 40 metres wide. What is the area of the pitch? If the cost of the pitch is £30 per square metre, what is the cost of installing the pitch?
3. A bedroom wall is 3m long and 2m high. What is the total area of the wall? A tin of paint will cover  $10\text{m}^2$ . How many tins are needed if each wall needs 2 coats of paint?
4. A window is 150cm wide and 90cm high. What is the area of the window in square metres? Three times the area of the window is needed for curtain material. What area of material is needed?
5. A car park space needs 8 square metres for 1 car. Just considering the spaces for parking, what dimensions for a car park would be needed for 60 cars?
6. A carpet costs £5 per square metre and underlay costs £3 per square metre. A bedroom measures 4m by 3m. How much will it cost to lay underlay and carpet in the bedroom?
7. A patio measures 150cm by 300cm. What is the area of the patio in square metres? If the stone tiles measure 75cm by 30cm, how many will be needed to cover the patio?
8. A cleaner polishes a sports hall floor. The hall is 50m wide and 80m long. One tin of polish will cover 100 square metres of the floor. How many tins are needed to polish the floor?
9. A team of volunteers need to clean a beach. At high tide the beach is 100m long, and 25m wide. What is the area of the beach they have to clean? Each volunteer can clean up 10 square metres in 5 minutes. How long will it take 25 people to clean up the beach?
10. A field of wheat measures 120 metres by 80 metres. What is the area of the field? A combine harvester harvests the field in 40 minutes. How many metres does the combine harvester harvest each minute?



# Area Word Problems

## Answers

1.  $5000\text{cm}^2$ ,  $0.5\text{m}^2$   
 $8\text{m}^2$

2.  $3600\text{m}^2$   
£108 000

3.  $6\text{m}^2$   
2 tins

4.  $1.35\text{m}^2$   
 $4.05\text{m}^2$

5.  $480\text{m}^2$

6. £96

7.  $4.5\text{m}^2$

8. 40 tins

9.  $2500\text{m}^2$   
Each cleans up  $100\text{m}^2$  , so takes 50 minutes.

10.  $240\text{m}^2$