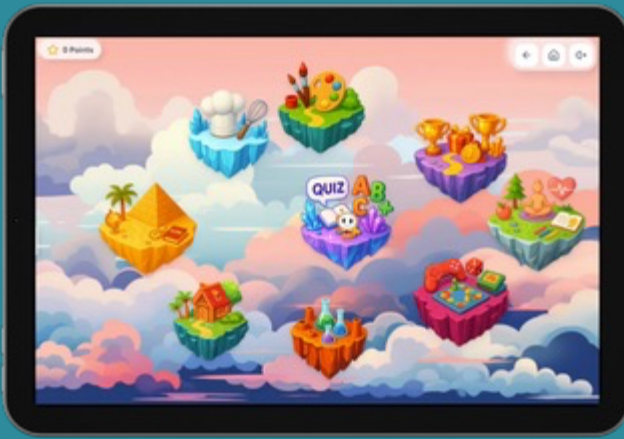


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Area - Year 5

Table of Contents	
Presentation: Area - Year 5	
Classroom Display: Area Quick Guide	
Activity: Area Around Us Task Cards	
Activity: Area Around Us Recording Sheet	
Game: Area Bang!	
Worksheet: Area of Rectangles	
Worksheet: Counting Square Units	
Worksheet: Joined Rectangles	
Worksheet: Garden Area Design	
Worksheet: Measuring Area on Grids	
Worksheet: Area and Perimeter Reasoning	
Quiz: Area - Year 5	
Assessment: School Courtyard Area Assessment	
Rubric: Area Year 5 Rubric	

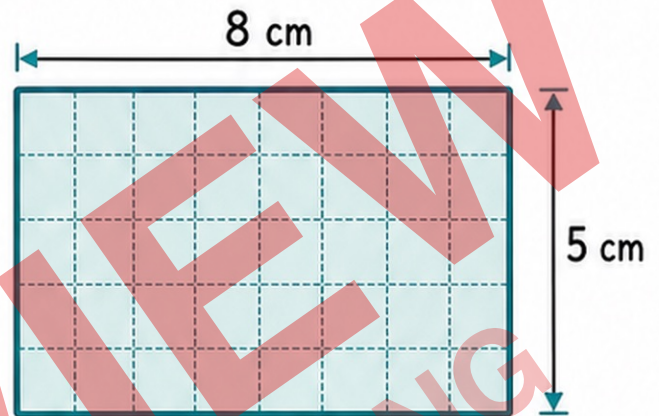


Area Quick Guide



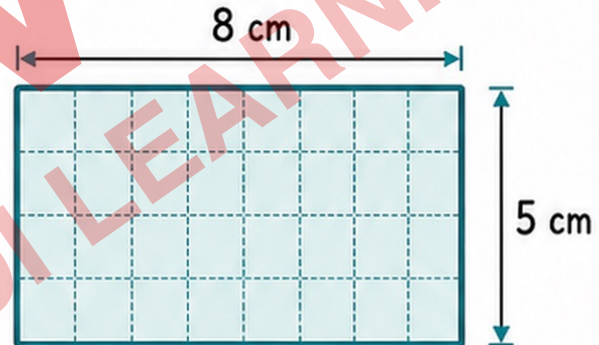
1 Area means space inside

Area measures the surface a shape covers. It is written in square units, such as cm^2 or m^2 .



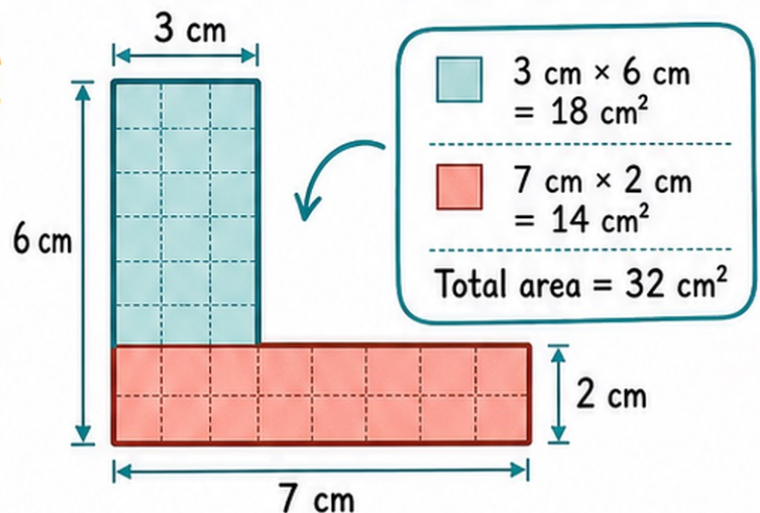
2 Rectangles

Area = length $\times$ width
 $8 \text{ cm} \times 5 \text{ cm} = 40 \text{ cm}^2$

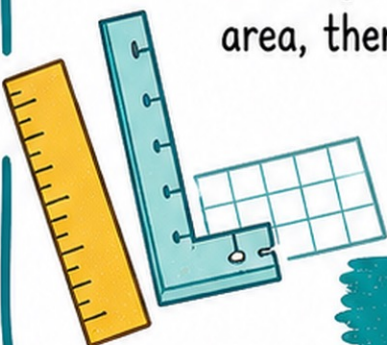


3 Irregular shapes

Split the shape into rectangles, find each area, then add the parts.



Estimate first. Check your units.



Area Around Us Task Cards 1

1

Desk Top



Length 120 cm.

Width 60 cm.

Find the area.



2

Reading Rug



Length 4 m.

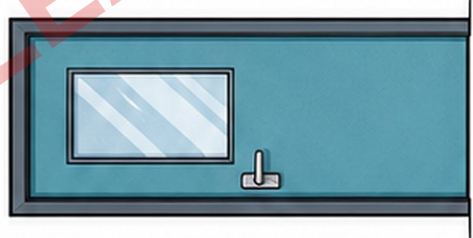
Width 3 m.

Find the area.



3

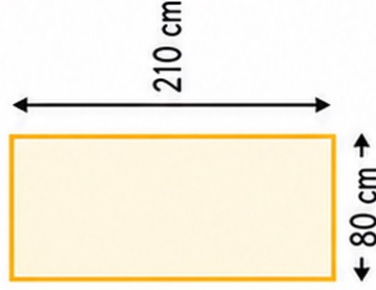
Class Door



Height 210 cm.

Width 80 cm.

Find the area.



4

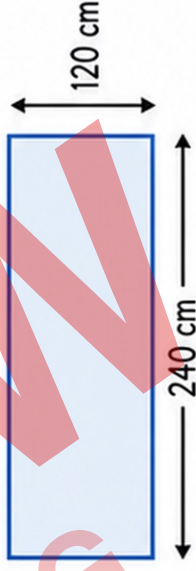
Whiteboard



Length 240 cm.

Width 120 cm.

Find the area.



Area Around Us Task Cards 2

1

Garden Bed



Length 6 m.

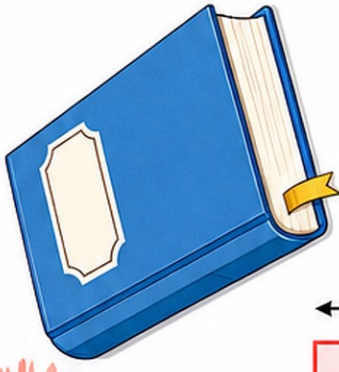
Width 2 m.

Find the area.



2

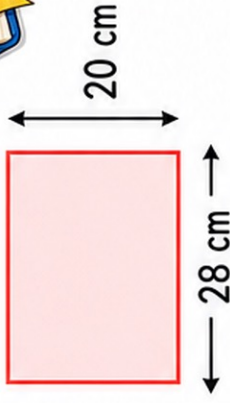
Book Cover



Length 28 cm.

Width 20 cm.

Find the area.



3

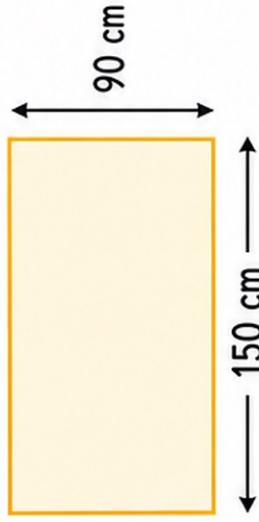
Floor Mat



Length 150 cm.

Width 90 cm.

Find the area.



4

Display Board



Length 3 m.

Width 2 m.

Find the area.



≡ Area Around Us Recording Sheet ≡

Name: _____

Date: _____

Card	Object	Length	Width	Number sentence	Area	Unit check
1						☐
2						☐
3						☐
4						☐
5						☐
6						☐
7						☐
8						☐



Remember

Area = length x width.

Use square units, such as cm² or m².

Area Bang!

A rectangle-area fluency game



Objective:

Match rectangle dimensions to the correct area.



Materials:

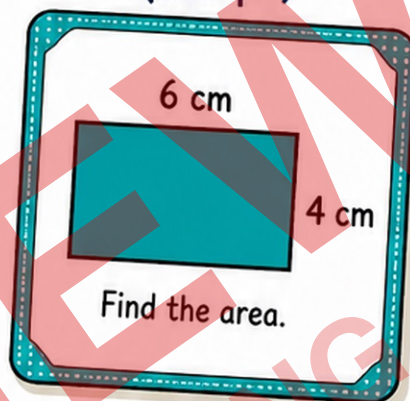
Area cards, answer cards and Bang! cards



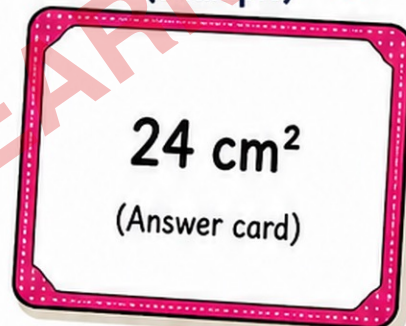
Setup:

Shuffle the cards.
Place them face down in a pile.

Dimension Card (example)



Answer Card (example)



Bang! Card (example)



How to play:

1. Take turns drawing one card.
2. If it shows dimensions, say the area with the correct square unit.
3. If it shows an area, name possible rectangle dimensions.
4. If you draw Bang!, return three cards to the pile.
5. The player with the most cards at the end wins.

★ Area Bang! Cards 1 ★

6 cm x 4 cm



24 cm²



9 cm x 5 cm



45 cm²



8 cm x 7 cm



56 cm²



12 cm x 3 cm



36 cm²



10 m x 4 m



40 m²



Bang!

Bang!

★ Area Bang! Cards 2 ★

7 cm x 6 cm



42 cm²



11 cm x 4 cm



44 cm²



15 m x 6 m



90 m²



18 cm x 5 cm



90 cm²



14 m x 3 m



42 m²



Bang!

Bang!

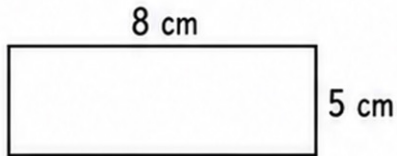
Area of Rectangles

Name: _____

Date: _____

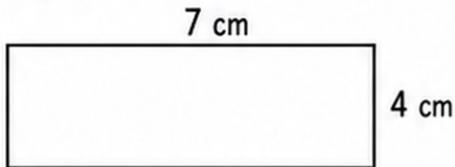
Find the area of each rectangle. Write the number sentence and the answer with square units.

Example:



$$8 \text{ cm} \times 5 \text{ cm} = 40 \text{ cm}^2$$

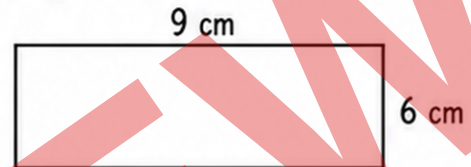
1. 7 cm by 4 cm



Number sentence: _____

Answer: _____

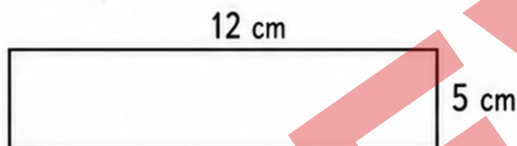
2. 9 cm by 6 cm



Number sentence: _____

Answer: _____

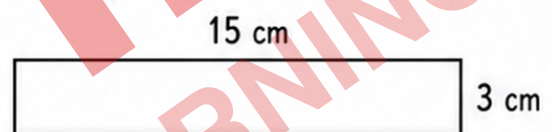
3. 12 cm by 5 cm



Number sentence: _____

Answer: _____

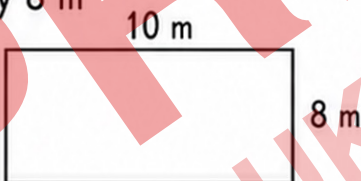
4. 15 cm by 3 cm



Number sentence: _____

Answer: _____

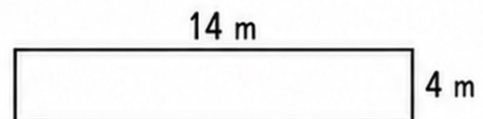
5. 10 m by 8 m



Number sentence: _____

Answer: _____

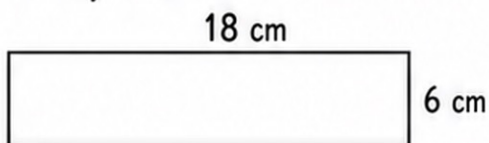
6. 14 m by 4 m



Number sentence: _____

Answer: _____

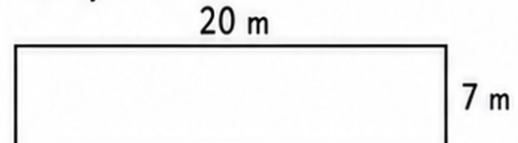
7. 18 cm by 6 cm



Number sentence: _____

Answer: _____

8. 20 m by 7 m



Number sentence: _____

Answer: _____

★ Check: Did you use square units?



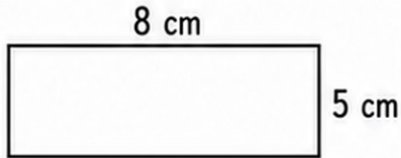
Area of Rectangles

Name: **ANSWERS**

Date: _____

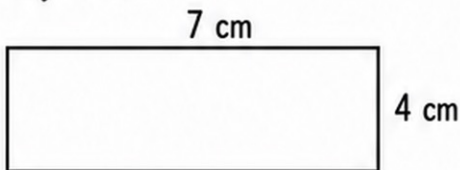
Find the area of each rectangle. Write the number sentence and the answer with square units.

Example:



$$8 \text{ cm} \times 5 \text{ cm} = 40 \text{ cm}^2$$

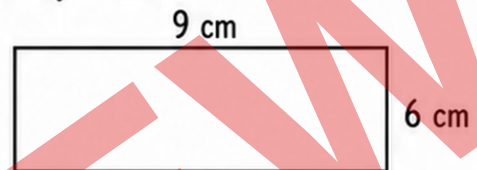
1. 7 cm by 4 cm



Number sentence: $7 \times 4 = 28 \text{ cm}^2$

Answer: 28 cm^2

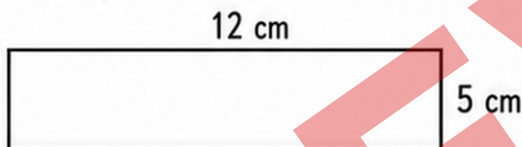
2. 9 cm by 6 cm



Number sentence: $9 \times 6 = 54 \text{ cm}^2$

Answer: 54 cm^2

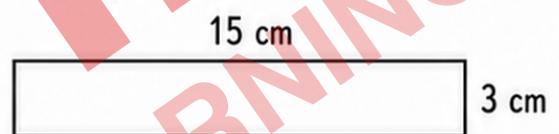
3. 12 cm by 5 cm



Number sentence: $12 \times 5 = 60 \text{ cm}^2$

Answer: 60 cm^2

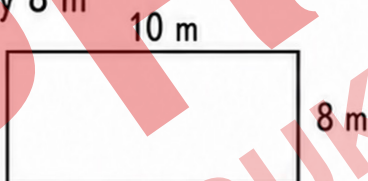
4. 15 cm by 3 cm



Number sentence: $15 \times 3 = 45 \text{ cm}^2$

Answer: 45 cm^2

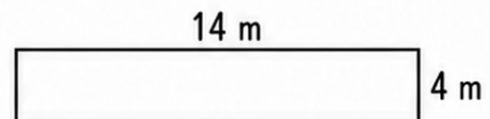
5. 10 m by 8 m



Number sentence: $10 \times 8 = 80 \text{ m}^2$

Answer: 80 m^2

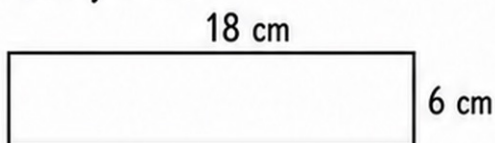
6. 14 m by 4 m



Number sentence: $14 \times 4 = 56 \text{ m}^2$

Answer: 56 m^2

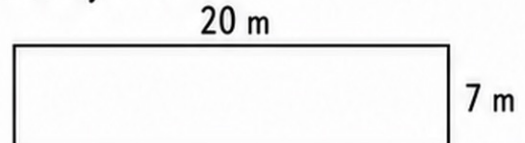
7. 18 cm by 6 cm



Number sentence: $18 \times 6 = 108 \text{ cm}^2$

Answer: 108 cm^2

8. 20 m by 7 m



Number sentence: $20 \times 7 = 140 \text{ m}^2$

Answer: 140 m^2

★ Check: Did you use square units?



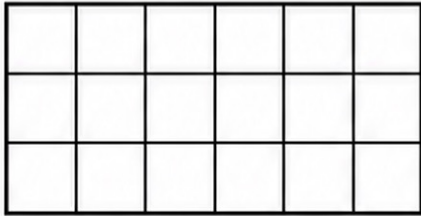
Counting Square Units

Name: _____

Date: _____

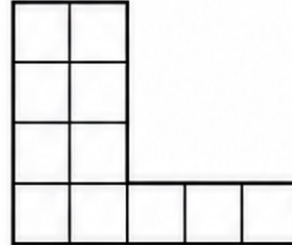
Count the unit squares inside each shape. Write the area in square units.

1.



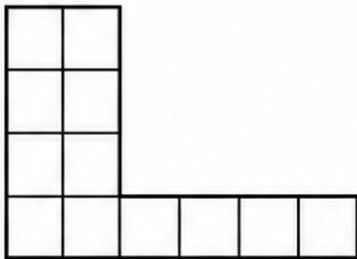
Area = _____ square units

2.



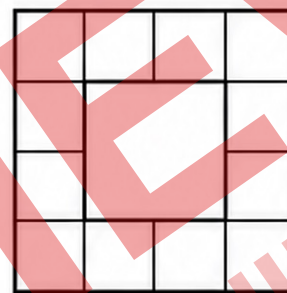
Area = _____ square units

3.



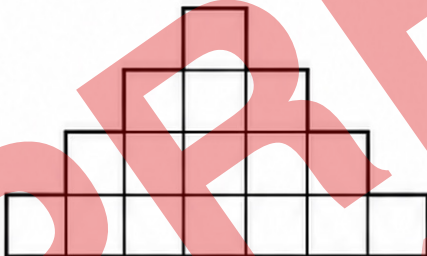
Area = _____ square units

4.



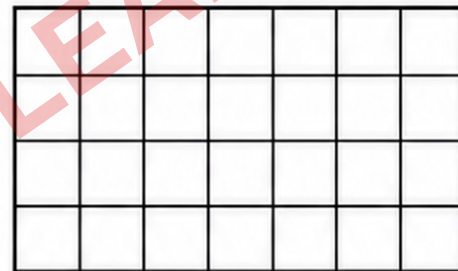
Area = _____ square units

5.



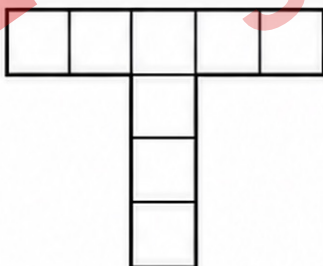
Area = _____ square units

6.



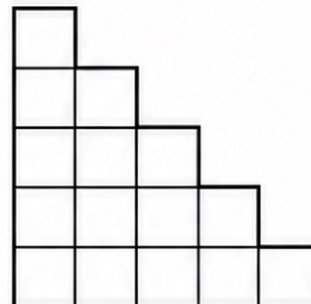
Area = _____ square units

7.



Area = _____ square units

8.



Area = _____ square units

Challenge: Circle two shapes with the same area.

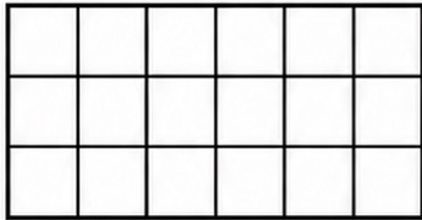
Counting Square Units

Name: ANSWERS

Date: _____

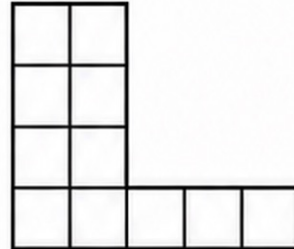
Count the unit squares inside each shape. Write the area in square units.

1.



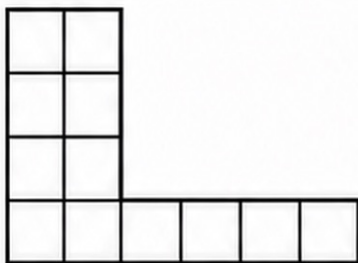
Area = 18 square units

2.



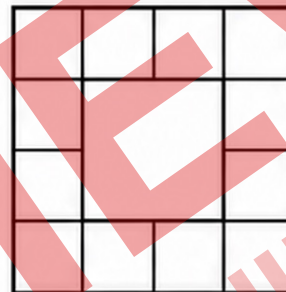
Area = 11 square units

3.



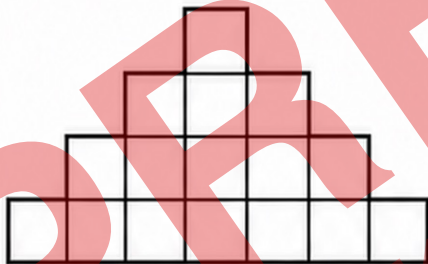
Area = 12 square units

4.



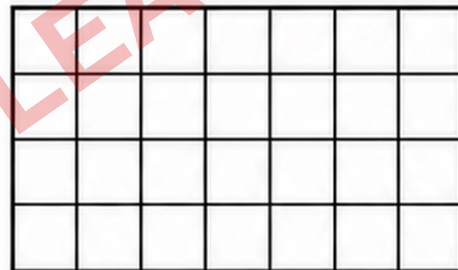
Area = 12 square units

5.



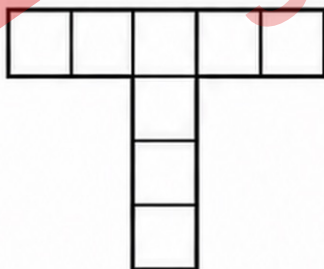
Area = 16 square units

6.



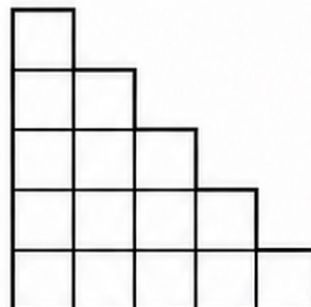
Area = 28 square units

7.



Area = 8 square units

8.



Area = 15 square units

Challenge: Circle two shapes with the same area.
(Example pair: 3 and 4)



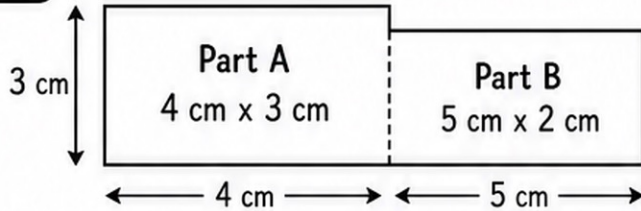
Joined Rectangles

Name: _____

Date: _____

Find the area of Part A and Part B. Add the parts to find the total area.

Example:

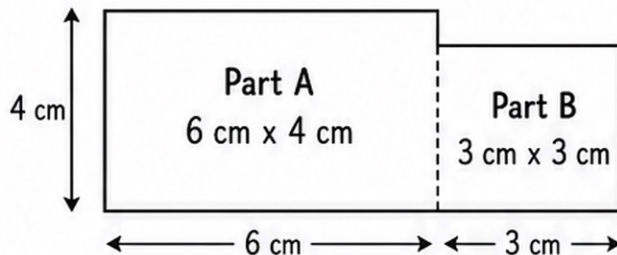


Example: Part A 4 cm x 3 cm = 12 cm².

Part B 5 cm x 2 cm = 10 cm².

Total area = 22 cm².

1.

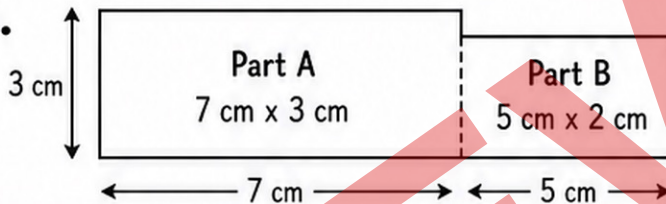


Part A = _____

Part B = _____

Total area = _____

2.

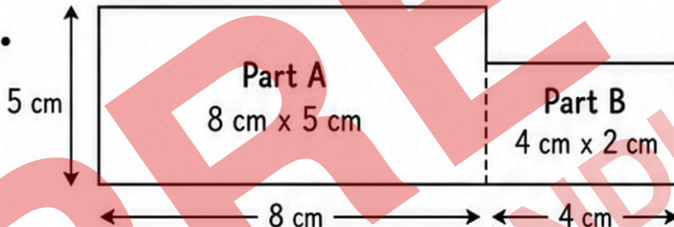


Part A = _____

Part B = _____

Total area = _____

3.

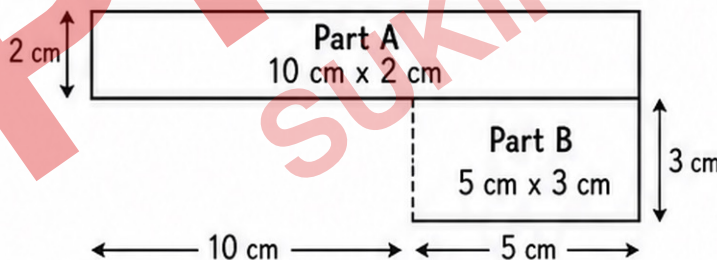


Part A = _____

Part B = _____

Total area = _____

4.

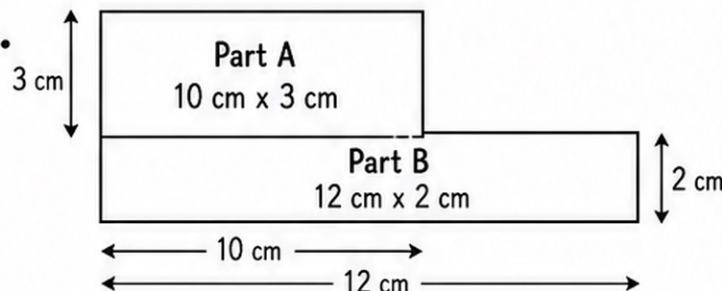


Part A = _____

Part B = _____

Total area = _____

5.



Part A = _____

Part B = _____

Total area = _____

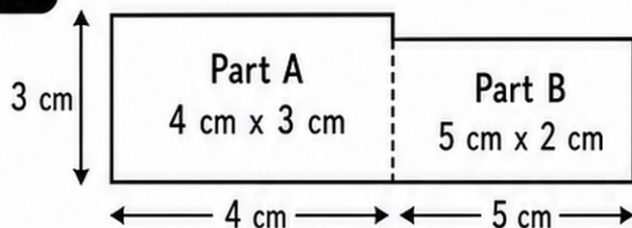
Joined Rectangles

Name: **ANSWERS**

Date: _____

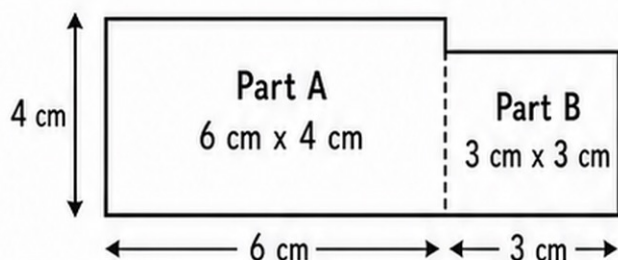
Find the area of Part A and Part B. Add the parts to find the total area.

Example:



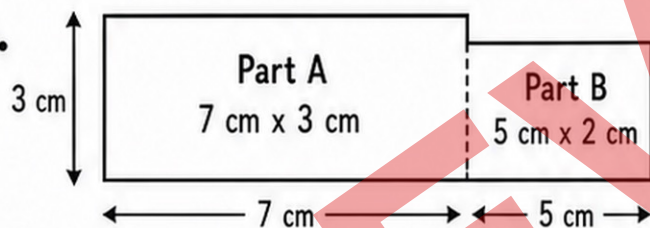
Example: Part A 4 cm x 3 cm = 12 cm².
Part B 5 cm x 2 cm = 10 cm².
Total area = 22 cm².

1.



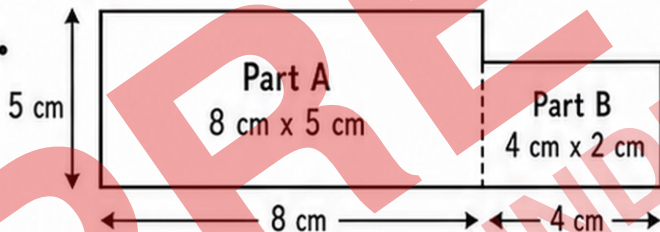
Part A = **24 cm²**
Part B = **9 cm²**
Total area = **33 cm²**

2.



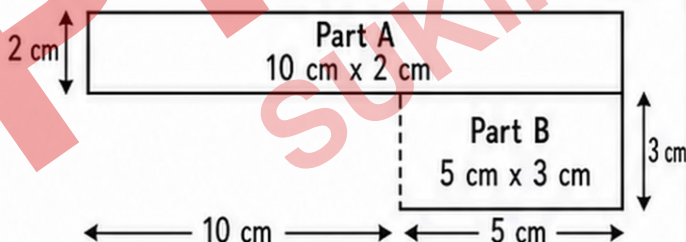
Part A = **21 cm²**
Part B = **10 cm²**
Total area = **31 cm²**

3.



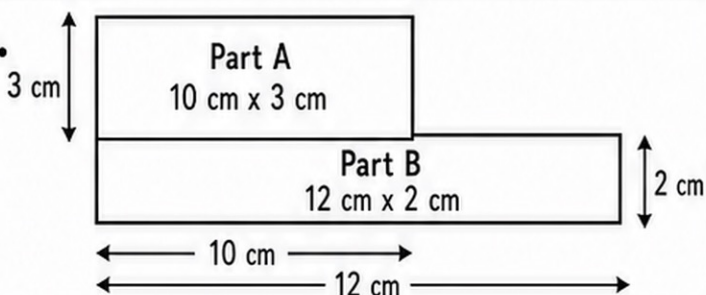
Part A = **40 cm²**
Part B = **8 cm²**
Total area = **48 cm²**

4.



Part A = **20 cm²**
Part B = **15 cm²**
Total area = **35 cm²**

5.



Part A = **30 cm²**
Part B = **24 cm²**
Total area = **54 cm²**



Garden Area Design



Name: _____

Date: _____

Design a school garden on the grid. Each square metre is one grid square.

Grid area for designing the garden. A large grid of dots is provided for drawing. A red watermark 'PREVIEW' is overlaid diagonally across the grid.

1 square = 1 m²

Your garden must include:

☐

vegetable bed

☐

flower bed

☐

path

☐

quiet sitting area



Garden feature	Length	Width	Area

1. Find the total planted area.

2. Explain how you checked your units.





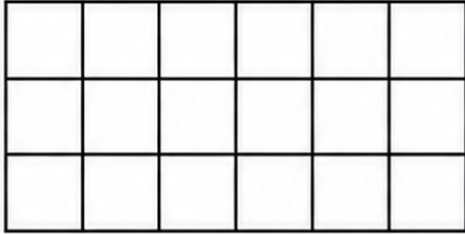
Measuring Area on Grids

Name: _____

Date: _____

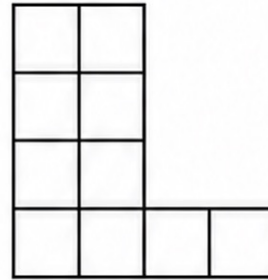
Find the area of each shape. You may count squares or split the shape into rectangles.

1.



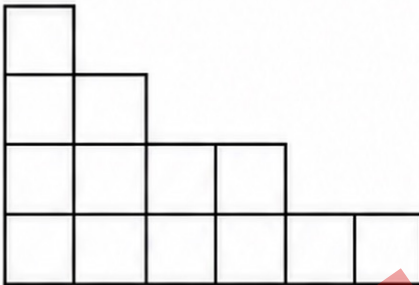
Area = _____ square units

2.



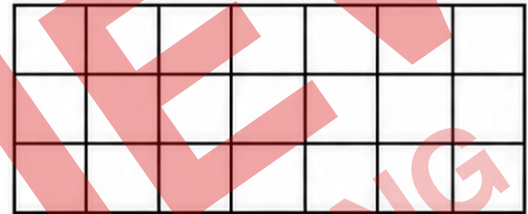
Area = _____ square units

3.



Area = _____ square units

4.



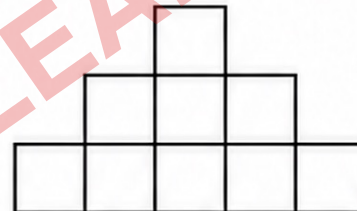
Area = _____ square units

5.



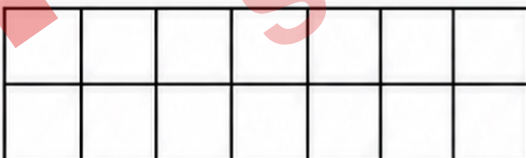
Area = _____ square units

6.



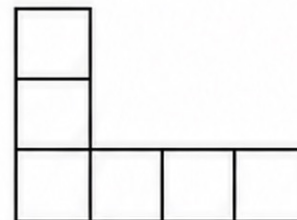
Area = _____ square units

7.



Area = _____ square units

8.



Area = _____ square units

Which strategy was fastest? Why?



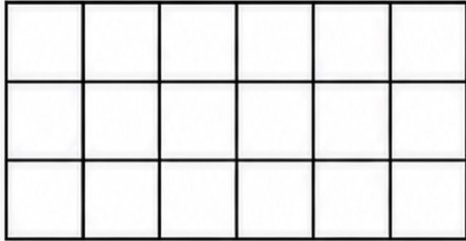
Measuring Area on Grids

Name: ANSWERS

Date: _____

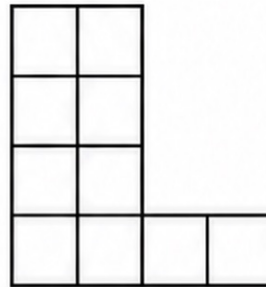
Find the area of each shape. You may count squares or split the shape into rectangles.

1.



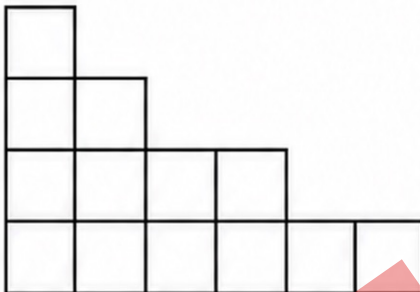
Area = 18 square units

2.



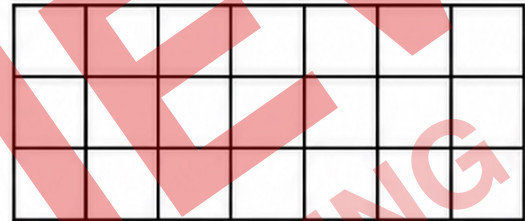
Area = 10 square units

3.



Area = 13 square units

4.



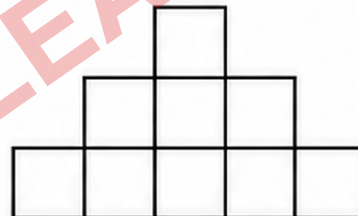
Area = 21 square units

5.



Area = 7 square units

6.



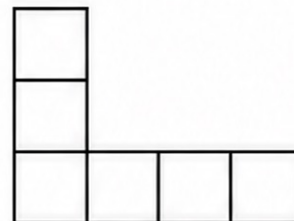
Area = 9 square units

7.



Area = 14 square units

8.



Area = 8 square units

Which strategy was fastest? Why?

Strategies may vary. Counting, rows, or splitting rectangles can work.

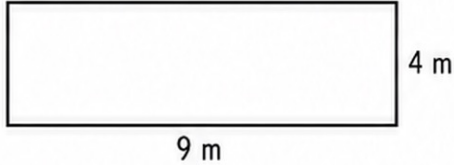
Area and Perimeter Reasoning

Name: _____

Date: _____

Solve each problem. Show your working and include the correct units.

- 1.** A garden bed is 9 m long and 4 m wide.
Find its area and perimeter.

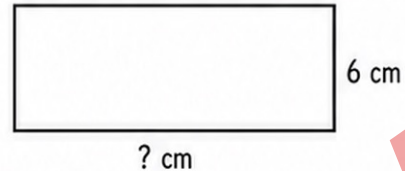


Area = _____

Perimeter = _____

Working:

- 2.** A mat has an area of 48 cm^2 .
One side is 6 cm.
What could the other side be?

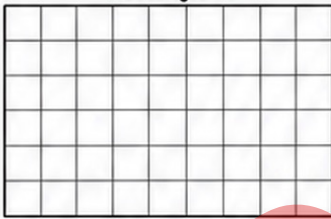


Other side could be _____

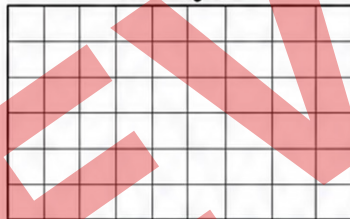
Working:

- 3.** Draw two rectangles with a perimeter of 24 cm.
Find the area of each rectangle.

Rectangle A



Rectangle B

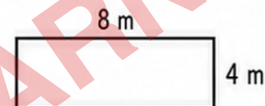
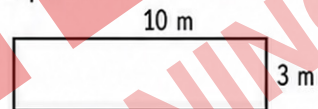


Area of Rectangle A = _____

Area of Rectangle B = _____

Show your working.

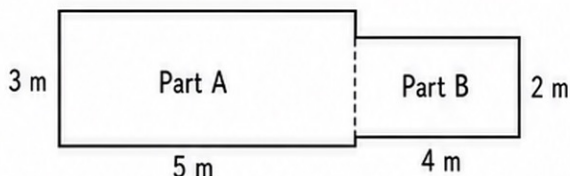
- 4.** Which rectangle has the greater area:
10 m by 3 m or 8 m by 4 m?
Explain.



Greater area: _____

Explain your answer.

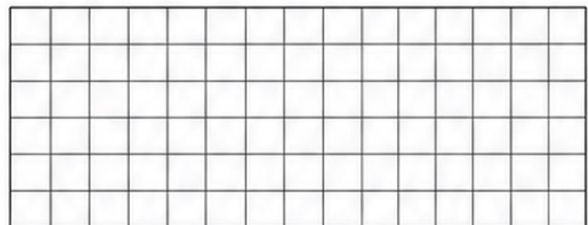
- 5.** A path is made from two joined rectangles.
Part A is 5 m by 3 m.
Part B is 4 m by 2 m.
Find the total area.



Total area = _____

Working:

- 6.** Create a rectangle with an area of 36 square units.
Label its dimensions.



Length = _____ units

Width = _____ units

Area = _____ square units

Show your working.



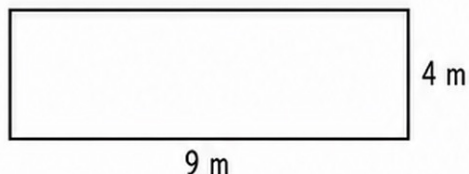
Area and Perimeter Reasoning

Name: **ANSWERS**

Date: _____

Solve each problem. Show your working and include the correct units.

- 1.** A garden bed is 9 m long and 4 m wide.
Find its area and perimeter.



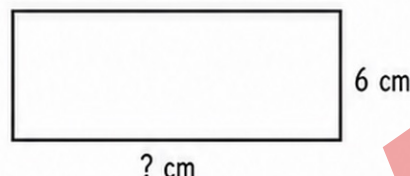
Area = **36 m^2**

Perimeter = **26 m**

Working: **$\text{Area: } 9 \text{ m} \times 4 \text{ m} = 36 \text{ m}^2$**

$\text{Perimeter: } 2 \times (9 \text{ m} + 4 \text{ m}) = 26 \text{ m}$

- 2.** A mat has an area of 48 cm^2 .
One side is 6 cm.
What could the other side be?



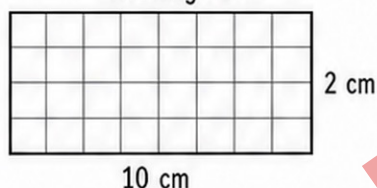
Other side could be **8 cm , because $48 \div 6 = 8$**

Working: _____

$48 \div 6 = 8 \text{ cm}$

- 3.** Draw two rectangles with a perimeter of 24 cm.
Find the area of each rectangle.

Rectangle A

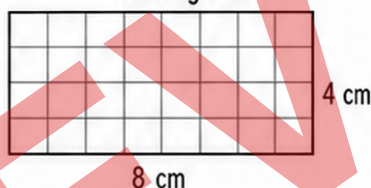


Area of Rectangle A = **20 cm^2**

Show your working.

$\text{Area} = 2 \text{ cm} \times 10 \text{ cm} = 20 \text{ cm}^2$

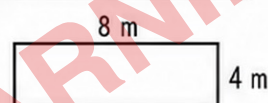
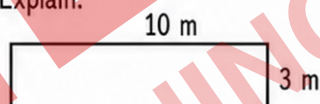
Rectangle B



Area of Rectangle B = **32 cm^2**

$\text{Area} = 4 \text{ cm} \times 8 \text{ cm} = 32 \text{ cm}^2$

- 4.** Which rectangle has the greater area:
10 m by 3 m or 8 m by 4 m?
Explain.



Greater area: **$8 \text{ m by } 4 \text{ m}$**

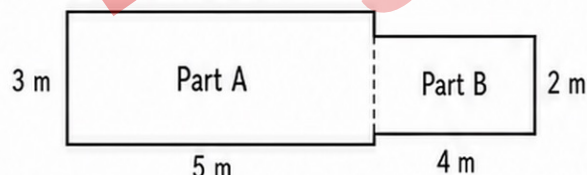
Explain your answer.

$8 \text{ m} \times 4 \text{ m} = 32 \text{ m}^2$

$10 \text{ m} \times 3 \text{ m} = 30 \text{ m}^2$

$32 \text{ m}^2 \text{ is greater than } 30 \text{ m}^2$

- 5.** A path is made from two joined rectangles.
Part A is 5 m by 3 m.
Part B is 4 m by 2 m.
Find the total area.



Total area = **$15 \text{ m}^2 + 8 \text{ m}^2 = 23 \text{ m}^2$**

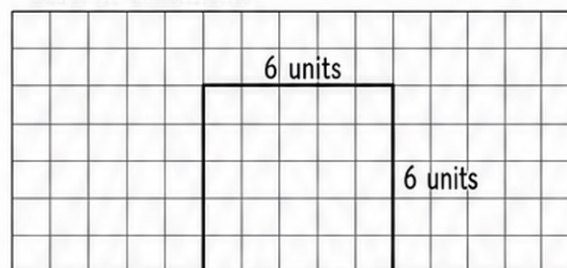
Working:

$\text{Area of Part A} = 5 \text{ m} \times 3 \text{ m} = 15 \text{ m}^2$

$\text{Area of Part B} = 4 \text{ m} \times 2 \text{ m} = 8 \text{ m}^2$

$\text{Total area} = 15 \text{ m}^2 + 8 \text{ m}^2 = 23 \text{ m}^2$

- 6.** Create a rectangle with an area of 36 square units.
Label its dimensions.



Length = **6** units

Width = **6** units

Area = **36** square units

Show your working.

$6 \times 6 = 36 \text{ square units}$

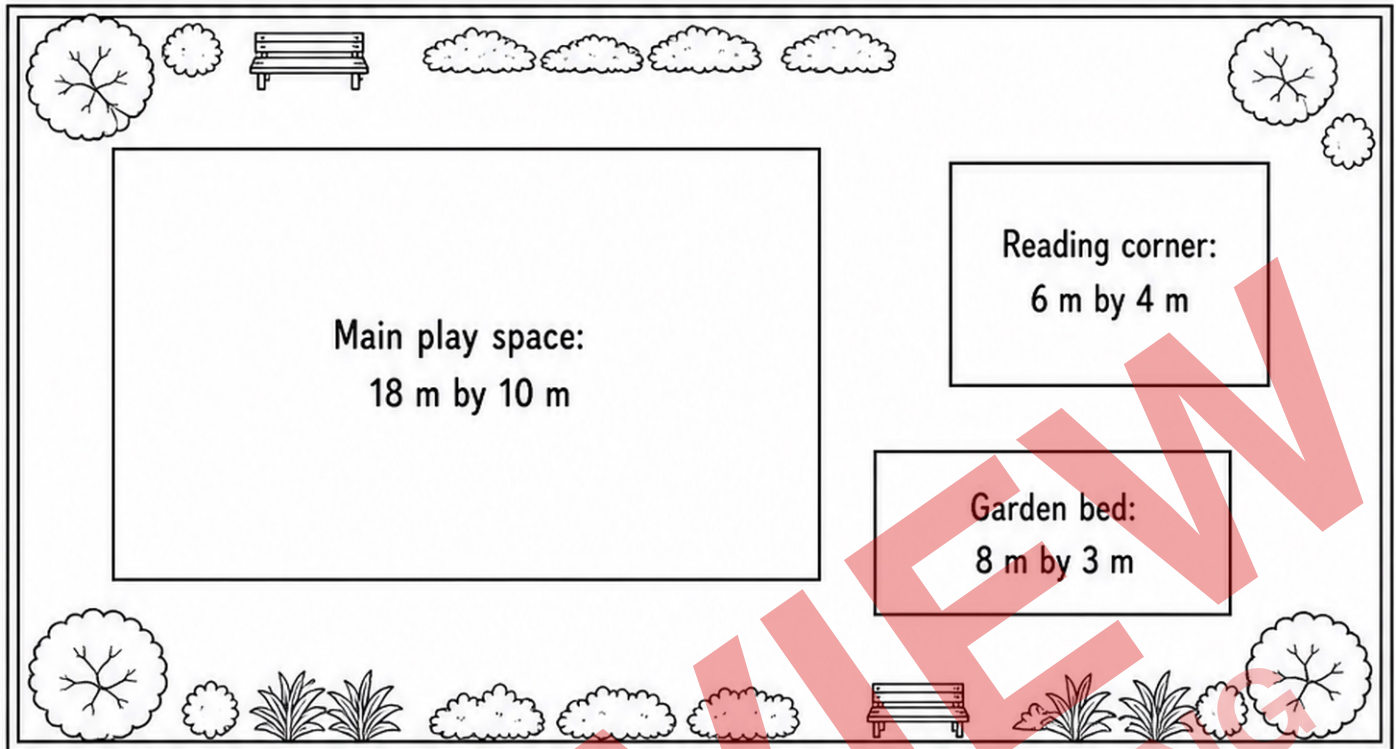
School Courtyard Area Assessment

Page 1

Name: _____

Date: _____

Use the courtyard plan to answer the questions. Show your working and include square units.



1. Find the area of the main play space.

2. Find the area of the reading corner.

3. Find the area of the garden bed.

4. Find the total area of all three spaces.

5. Which space has the greatest area? Explain how you know.



School Courtyard Area Assessment

Name: _____

Design one new rectangular feature for the courtyard. Each grid square is 1 m².

Design brief: The feature must have an area between 30 m² and 60 m².

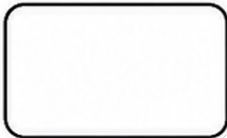
6. Draw and label your feature on the grid.



Feature	Length	Width	Area

7. Write the number sentence you used to find its area.

8. Explain why your design meets the brief.



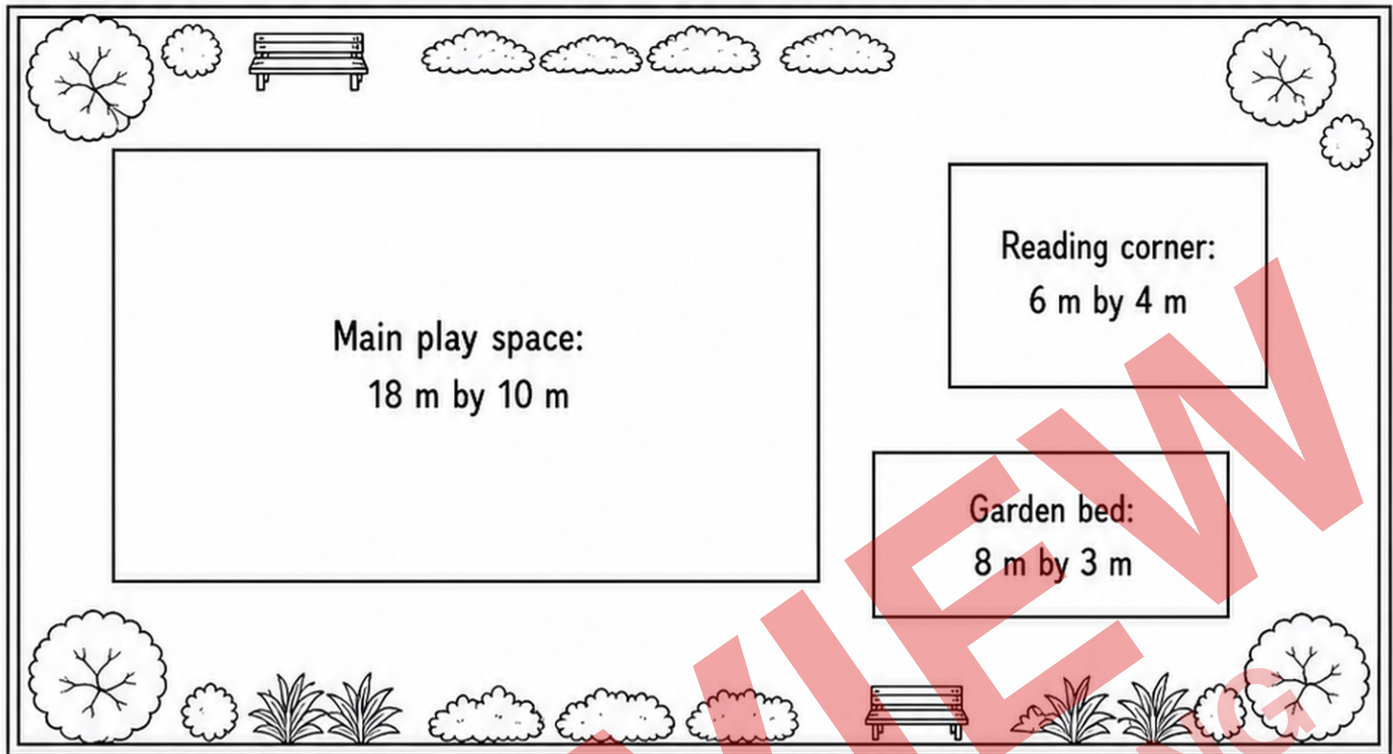
School Courtyard Area Assessment

Page 1

Name: ANSWERS

Date: _____

Use the courtyard plan to answer the questions. Show your working and include square units.



1. Find the area of the main play space.

$$18 \times 10 = 180 \text{ m}^2$$

2. Find the area of the reading corner.

$$6 \times 4 = 24 \text{ m}^2$$

3. Find the area of the garden bed.

$$8 \times 3 = 24 \text{ m}^2$$

4. Find the total area of all three spaces.

$$180 + 24 + 24 = 228 \text{ m}^2$$

5. Which space has the greatest area? Explain how you know.

Main play space, because 180 m^2 is greater than 24 m^2 .

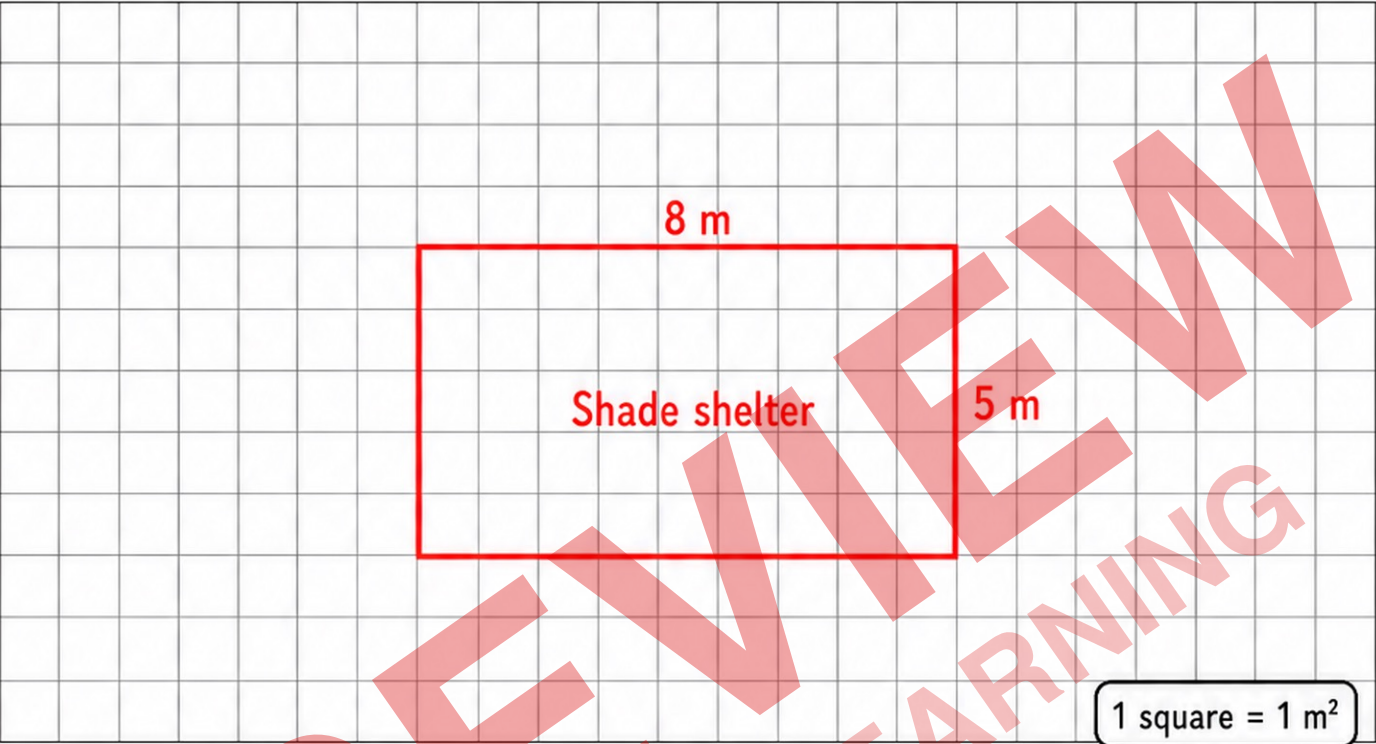
School Courtyard Area Assessment

Name: ANSWERS

Design one new rectangular feature for the courtyard. Each grid square is 1 m².

Design brief: The feature must have an area between 30 m² and 60 m².

6. Draw and label your feature on the grid.



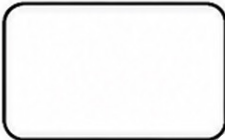
Feature	Length	Width	Area
Shade shelter	8 m	5 m	40 m ²

7. Write the number sentence you used to find its area.

8 x 5 = 40 m²

8. Explain why your design meets the brief.

40 m² is between 30 m² and 60 m², so the design meets the brief.



Area - Year 5 Rubric

Name: _____

Date: _____

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Understands area	needs support to identify area and square units.	some correct steps in identifying area and square units.	mostly accurate in identifying area and square units.	accurate and clear understanding of area and square units.	efficient and well explained understanding of area and square units.
Calculates rectangle area	needs support to calculate rectangle area.	some correct steps when calculating rectangle area.	mostly accurate calculations using length $\times$ width.	accurate and clear calculations using length $\times$ width.	efficient and well explained calculations using length $\times$ width.
Works with composite shapes	needs support to split shapes or add areas.	some correct steps when splitting shapes and adding areas.	mostly accurate when splitting shapes and adding areas.	accurate and clear when splitting shapes and adding areas.	efficient and well explained when splitting shapes and adding areas.
Explains reasoning and units	needs support to explain reasoning or use units.	some correct reasoning or units used.	mostly clear reasoning and correct units.	clear reasoning and consistent use of square units.	thorough reasoning and precise use of square units.

Focus: area of rectangles, square units, joined shapes and practical measurement problems.

Area Year 5



Area Quiz

