Areas of shapes quiz

Level A

1. Area is the measure of space contained within a flat shape.
   A) True
   B) False

2. Area can be found by adding the lengths around a shape.
   A) True
   B) False

3. Assume the squares are square centimetres in this shape. What is the area?

   A) 8 cm
   B) 4 cm
   C) 4 cm$^2$
   D) 8 cm$^2$

4. Assume the squares are square centimetres in this shape. What is the area?

   A) 8 cm
   B) 4 cm
   C) 4 cm$^2$
   D) 8 cm$^2$
Areas of shapes quiz

5. Assume the squares are square centimetres in this shape. What is the area?

A) 9 cm²
B) 12 cm
C) 9 cm
D) 12 cm²

6. Which of the following has an area of 6 cm²?
Assume the squares are square centimetres in each shape.

A) 
B) 
C) 

7. Which of the following does NOT have an area of 12 cm²?
Assume the squares are square centimetres in each shape.

A) 
B) 
C) 

8. Which of the following does NOT have an area of 15 cm²?
Assume the squares are square centimetres in each shape.

A) 
B) 
C)
Areas of shapes quiz

9. What is the area of a square with sides 5 m?
   
   A) $5 \text{ m}^2$
   B) $25 \text{ m}^2$
   C) $20 \text{ m}^2$
   D) $25 \text{ m}$

10. What is the area of a rectangle with sides 1m by 4m?

   A) $5 \text{ m}^2$
   B) $10 \text{ m}^2$
   C) $4 \text{ m}^2$
   D) $10 \text{ m}$
Areas of shapes quiz

Level B

1. Area is the measure of length around a flat shape.
   A) True
   B) False

2. Area can be found by counting squares.
   A) True
   B) False

3. Assume the squares are square centimetres in this shape. What is the area?
   A) 5 cm
   B) 6 cm
   C) 8 cm
   D) 10 cm

4. Assume the squares are square centimetres in this shape. What is the area?
   A) 16 cm
   B) 8 cm
   C) 16 cm
   D) 8 cm
Areas of shapes quiz

5. Assume the squares are square centimetres in this shape. What is the area?

A) 14 cm$^2$
B) 7 cm
C) 12 cm$^2$
D) 18 cm$^2$

6. Which of the following has an area of 10 cm$^2$?
Assume the squares are square centimetres in each shape.

A)  
B)  
C)  
Areas of shapes quiz

7. Which of the following does NOT have an area of 16 cm$^2$?
Assume the squares are square centimetres in each shape.

A)  
B)  
C)  

8. Which of the following does NOT have an area of 20 cm$^2$?
Assume the squares are square centimetres in each shape.

A)  
B)  
C)  
Areas of shapes quiz

9. What is the area of a square with sides 12 m?

A) 144 m$^2$
B) 48 m$^2$
C) 12 m$^2$
D) 48 m

10. What is the area of a rectangle with sides 10m by 3m?

A) 13 m$^2$
B) 30 m$^2$
C) 26 m$^2$
D) 26 m
Areas of shapes quiz

Level C

1. Area is the measure of space inside a solid shape.
   A) True
   B) False

2. Area can be found by multiplying a length by a width.
   A) True
   B) False

3. Assume the squares are square centimetres in this shape. What is the area?
   A) 5 cm\(^2\)
   B) 6 cm\(^2\)
   C) 8 cm\(^2\)
   D) 10 cm\(^2\)

4. Assume the squares are square centimetres in this shape. What is the area?
   A) 16 cm
   B) 12 cm\(^2\)
   C) 16 cm\(^2\)
   D) 8 cm\(^2\)
Areas of shapes quiz

5. Assume the squares are square centimetres in this shape. What is the area?

A) 9 cm²  
B) 7 cm²  
C) 20 cm²  
D) 18 cm²  

6. Which of the following has an area of 5 cm²? Assume the squares are square centimetres in each shape.

A)  
B)  
C)  

Areas of shapes quiz

7. Which of the following does NOT have an area of 12 cm$^2$?
   Assume the squares are square centimetres in each shape.

A) ![Diagram A]
B) ![Diagram B]
C) ![Diagram C]

8. Which of the following does NOT have an area of 15 cm$^2$?
   Assume the squares are square centimetres in each shape.

A) ![Diagram A]
B) ![Diagram B]
C) ![Diagram C]
Areas of shapes quiz

9. What is the area of a rectangle with sides 2m by 4.5m?
   A) 9 m²
   B) 6.5 m²
   C) 13 m²
   D) 4.5 m

10. What is the area of a square with sides 2.5 m?
    A) 5 m²
    B) 2.5 m²
    C) 10 m²
    D) 6.25 m²
Areas of shapes quiz

Answers

Level A

1. Area is the measure of space contained within a flat shape.
   The correct answer is: A. True. Area is a measure of the space within a flat shape.

2. Area can be found by adding the lengths around a shape.
   The correct answer is: B. False. That is known as the perimeter.

3. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: B. 4 cm\(^2\). Counting the squares gives 4, and area uses cm\(^2\).

4. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: A. 8 cm\(^2\). Counting the squares gives 8, and area uses cm\(^2\).

5. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: A. 9 cm\(^2\). Counting the squares gives 9, and area uses cm\(^2\).

6. Which of the following has an area of 6 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
   The correct answer is: shape B. Be careful to add up the squares not count around the edge.

7. Which of the following does NOT have an area of 12 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
Areas of shapes quiz

The correct answer is: shape A. Be careful to add up the squares not count around the edge.

8. Which of the following does NOT have an area of 15 cm\(^2\)?
   Assume the squares are square centimetres in the shape.

   The correct answer is: shape A. Be careful to add up the squares not count around the edge.

9. What is the area of a square with sides 5 m?

   The correct answer is: B. 25 m\(^2\). If you draw a square 5 by 5 you can see that there are 5 lots of 5 rows giving a total of 25 squares. Don’t forget area is measured in m\(^2\) not m.

10. What is the area of a rectangle with sides 1 m by 4 m?

    The correct answer is: C. 4 m\(^2\). If you draw a rectangle 1 by 4 you can see that there is one row of 5 squares. Don’t forget area is measured in m\(^2\) not m.
Areas of shapes quiz

Level B

1. Area is the measure of length around a flat shape.
   The correct answer is: B. False. Area is a measure of the space within a flat shape.

2. Area can be found by counting squares.
   The correct answer is: A. True. Counting squares can be a way of finding area although some squares may be cut up.

3. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: B. 6 cm\(^2\). Counting the squares gives 6, and area uses cm\(^2\).

4. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: C. 16 cm\(^2\). Counting the squares gives 16, and area uses cm\(^2\).

5. Assume the squares are square centimetres in the shape. What is the area?
   The correct answer is: A. 14 cm\(^2\). Counting the squares gives 14, and area uses cm\(^2\).

6. Which of the following has an area of 10 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
   The correct answer is: shape A. Be careful to add up the squares not count around the edge.

7. Which of the following does NOT have an area of 16 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
   The correct answer is: shape A. Be careful to add up the squares not count around the edge.
Areas of shapes quiz

8. Which of the following does NOT have an area of 20 cm$^2$?
   Assume the squares are square centimetres in the shapes.
   The correct answer is: shape B. Be careful to add up the squares not count around the edge.

9. What is the area of a square with sides 12 m?
   The correct answer is: A. 144 m$^2$. If you draw a square 12 by 12 you can see that there are 12 lots of 12 rows giving a total of 144 squares. Don’t forget area is measured in m$^2$ not m.

10. What is the area of a rectangle with sides 10m by 3m?
    The correct answer is: B. 30 m$^2$. If you draw a rectangle 10 by 3 you can see that there is 10 rows of 3 squares. Don’t forget area is measured in m$^2$ not m.
Areas of shapes quiz

Level C

1. Area is the measure of space inside a solid shape.
   
   The correct answer is: B. False. That is volume. Area is a measure of the space within a flat shape.

2. Area can be found by multiplying a length by a width.
   
   The correct answer is: B. False. This only works for squares and rectangles other shapes are different.

3. Assume the squares are square centimetres in the shape. What is the area?
   
   The correct answer is: A. 5 cm$^2$. Counting the squares gives 5, and area uses cm$^2$.

4. Assume the squares are square centimetres in the shape. What is the area?
   
   The correct answer is: B. 12 cm$^2$. Counting the squares gives 12, and area uses cm$^2$.

5. Assume the squares are square centimetres in the shape. What is the area?
   
   The correct answer is: A. 9 cm$^2$. Counting the squares gives 9, and area uses cm$^2$.

6. Which of the following has an area of 5 cm$^2$?
   Assume the squares are square centimetres in the shapes.

   The correct answer is: B. Be careful to add up the squares not count around the edge.
Areas of shapes quiz

7. Which of the following does NOT have an area of 12 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
   
   The correct answer is: C. Be careful to add up the squares not count around the edge.

8. Which of the following does NOT have an area of 15 cm\(^2\)?
   Assume the squares are square centimetres in the shapes.
   
   The correct answer is: C. Be careful to add up the squares not count around the edge.

9. What is the area of a rectangle with sides 2m by 4.5m?
   
   The correct answer is: A. 9 m\(^2\). If you draw a rectangle 2 by 4.5 you can see that there is 2 rows of 4.5 squares which add up to 9 squares in total. Don’t forget area is measured in m\(^2\) not m.

10. What is the area of a square with sides 2.5 m?
    
    The correct answer is: D. 6.25 m\(^2\). If you draw a square 2.5 by 2.5 you can see that there are 2 and a half lots of 2 and a half squares. This is 2.5 + 2.5 plus another half which is 1 and a quarter. The total is then 2.5 + 2.5 + 1.25 = 6.25. Don’t forget area is measured in m\(^2\) not m.