

Student Name: _____**Class:** _____**Student ID:** _____**Date:** {{DATE}}

Assessment Details

Duration: 45 minutes	Total Marks: 100
Topics Covered:	<ul style="list-style-type: none">• Enlargement• Scale Drawings• Scale Factors• Effects of Enlargement

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Question 1

[2 marks]

What is the definition of enlargement in geometry?

A) A transformation that reduces the size of a shape

B) A transformation that increases the size of a shape

C) A transformation that changes the orientation of a shape

D) A transformation that reflects a shape

Question 2

[2 marks]

What is the scale factor of an enlargement that increases the size of a shape by 50%?

A) 1.5

B) 2

C) 2.5

D) 3

Question 3

[2 marks]

What happens to the shape of an object when it is enlarged?

A) It remains the same

B) It changes

C) It becomes smaller

D) It becomes larger

Question 4

Page 0 | Enlargement Assessment Handout

[2 marks]

What is the effect of enlargement on the area of a shape?

A) It decreases

B) It remains the same

C) It increases

D) It becomes zero

Question 5

[2 marks]

What is the scale factor of an enlargement that reduces the size of a shape by 25%?

A) 0.75

B) 0.5

C) 0.25

D) 0.1

Question 6

[8 marks]

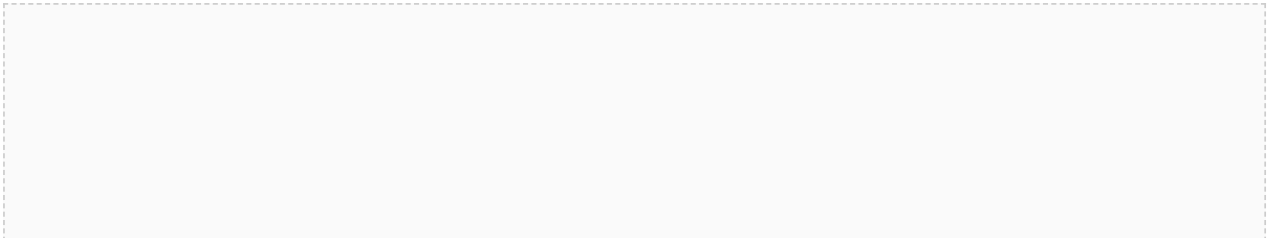
A rectangle with a length of 6 cm and a width of 4 cm is enlarged by a scale factor of 2. What are the new dimensions of the rectangle?



Question 7

[8 marks]

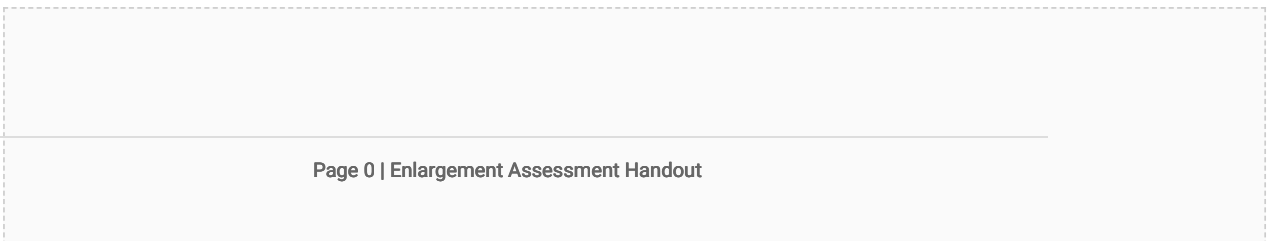
A triangle with a base of 5 cm and a height of 6 cm is enlarged by a scale factor of 1.5. What is the new area of the triangle?



Question 8

[8 marks]

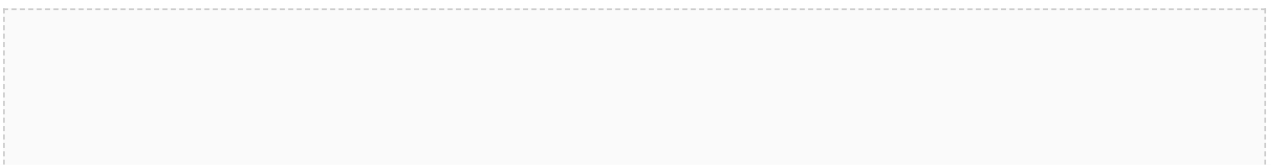
A circle with a radius of 3 cm is enlarged by a scale factor of 2. What is the new circumference of the circle?



Question 9

[8 marks]

A shape is enlarged by a scale factor of 3. What happens to its perimeter?



Question 10

[8 marks]

A shape is enlarged by a scale factor of 0.5. What happens to its area?

Question 11

[40 marks]

Design a scale drawing of a room in a house, including the furniture and fixtures. The room should be enlarged by a scale factor of 2. Calculate the new dimensions of the room and the furniture, and describe the effects of the enlargement on the shape and size of the room and its contents.



Additional Space for Answers

