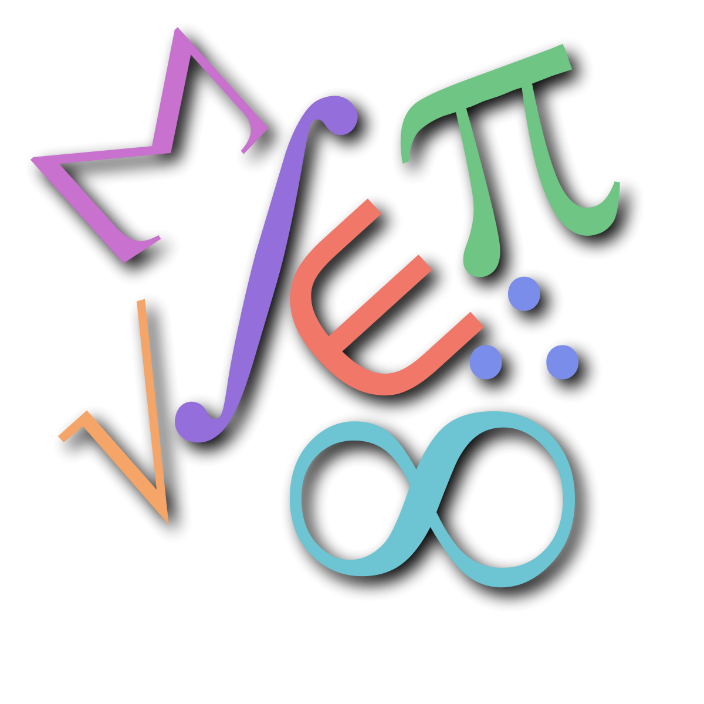
Student Details

**First Name Last Name**

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**TRANSITION ASSESSMENT PACK**

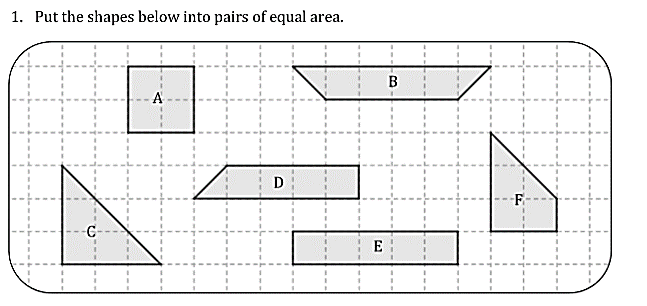
**YEAR: 7**

**TOPIC: GEOMETRY**

* You will need to watch the **six lessons** before attempting this pack.
* Please show all steps in your working.
* Attempt all questions.
* Total marks for the paper is 44.
* You may use a calculator if you have one.
* Time allowed is 60 minutes.

Complete the self-assessment when you have finished the paper.

|  |  |  |  |
| --- | --- | --- | --- |
| **Learning Objective** |  |  |  |
| I can calculate perimeter of rectangles |  |  |  |
| I can calculate area of rectangles |  |  |  |
| I can calculate perimeter of triangles |  |  |  |
| I can calculate area of triangles |  |  |  |
| I can calculate circumference of circles |  |  |  |
| I can calculate area of circles |  |  |  |
| I can calculate perimeter of compound shapes |  |  |  |
| I can calculate area of compound shapes |  |  |  |

**1**) Put the shapes below into pairs of equal area.

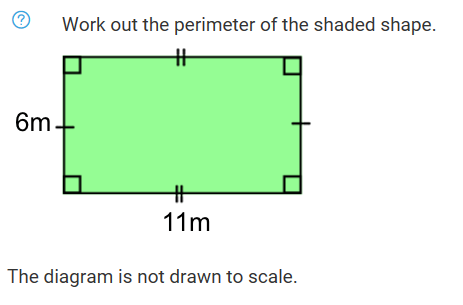
……………&……………..

……………&……………..

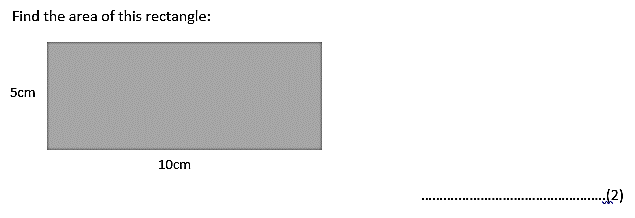
……………&……………..

**(3)**

**2)** Work out the perimeter of the shape below.

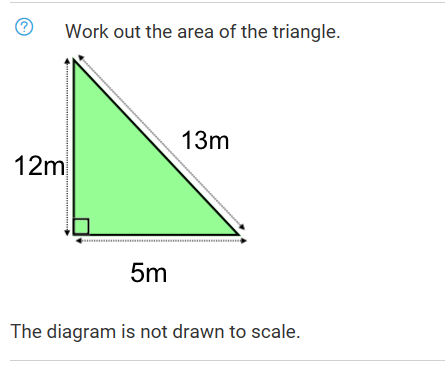


**…………………(2)**

**3)** Find the area of this rectangle.

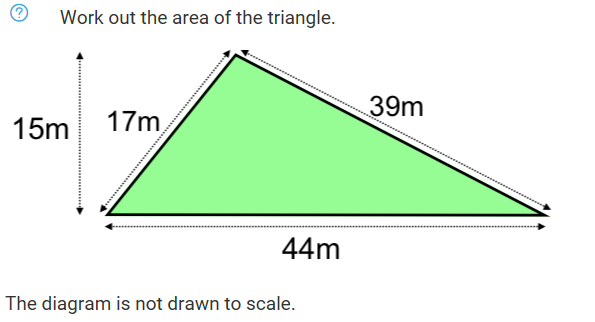
**…………………(2)**

**4)** Work out the area of the triangle below.



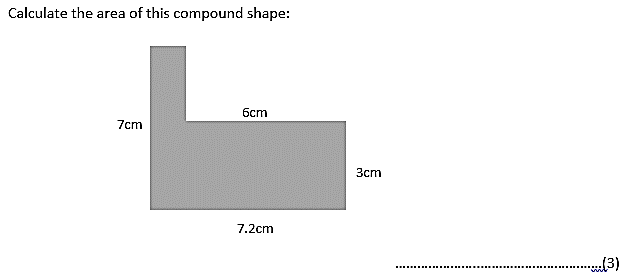
**……………(2)**

**5)** Work out the area of the triangle below.



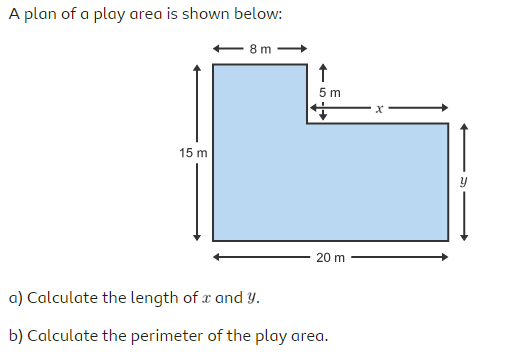
**………..…… ( 3)**

**6)** Work out the area of the compound shape below.



**………..…… ( 3)**

**7)** A plan of a play area is shown below.



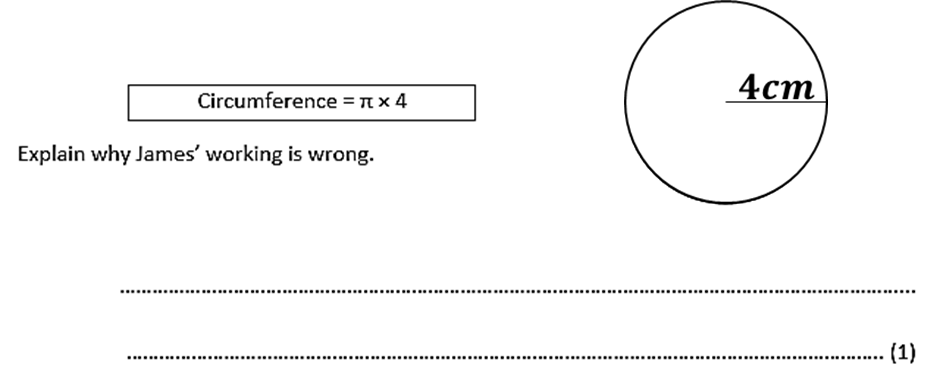
a) Calculate the length of x and y.

**…………………….(2)**

b) Calculate the perimeter of the play area.

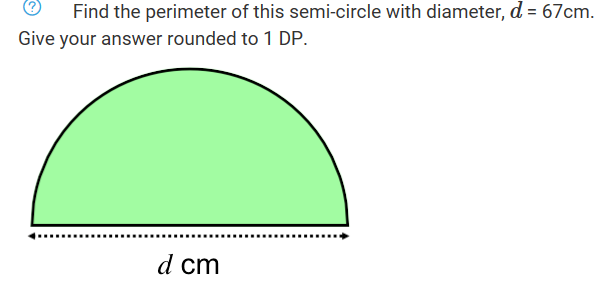
**………..…… ( 2)**

**8)** James is working out the circumference of a circle with radius 4cm.

He writes

**9)** (a) Find the perimeter of this semi-circle with diameter, .

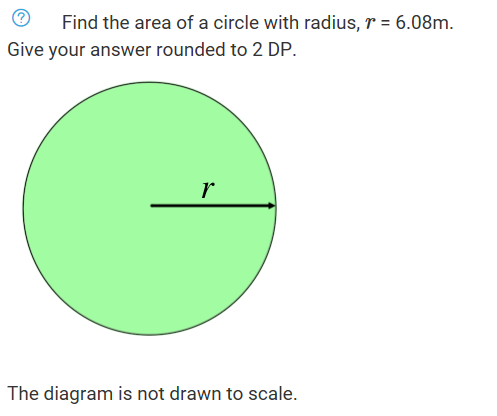
Give your answer rounded to 1d.p.



**…………………………..(3)**

(b) Find the area of a circle with radius, .

Give your answer correct to 2d.p.



**……………………..….(3)**

**10)** Isabella is making a display board for the school trip. The display board is a 10ft by 6ft rectangle. She needs to add a ribbon border around the entire display board. What is the length of ribbon that she needs?

**……………………..….(2)**

**11)** Danny has a rectangular rose garden that measures 8m by 10m. One bag of fertilizer can cover 16m2. How many bags will he need to cover the entire garden?

**……………………..….(3)**

**12)** The area of a rectangle is 28 square meters. The length is 7 meters.

What is the width of the rectangle?

**……………………..…. (3)**

**13)** Mark wants to put a border around his circular pond. He measures the diameter of the pond to be 5.5m. Fencing is sold in lengths of 2m.

**a)** How much fencing dose mark need for his border?



**……………………..…. (2)**

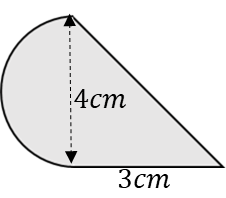
**b)** How many packs of fencing will he need to buy?

**……………………..…. (2)**

**14)** Find the perimeter of the shape below.



**……………………..…. (3)**

**15)**  Find the area of the shape below

**……………………..…. (3)**