

L.O. : I can estimate and approximate the area of irregular shapes.

Date: \_\_\_\_\_

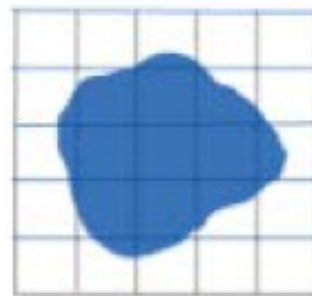
Fluency:

1a) Estimate the area of the pond.

Each square =  $1\text{m}^2$ .

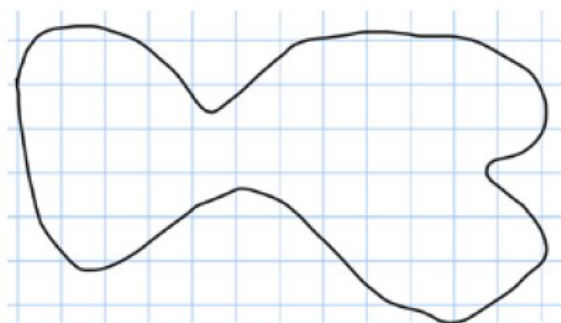
1b) Is the answer 6 whole and 4 parts an acceptable answer?

What can we do with the parts?



2) Each square is  $2\text{m}^2$ .

What is the approximate area of the whole shape?

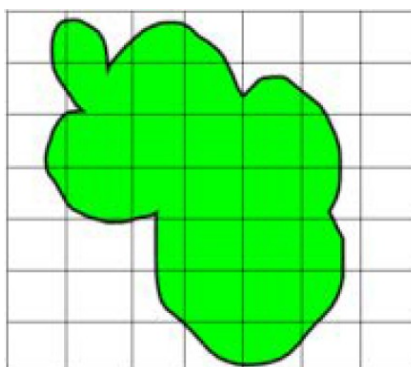
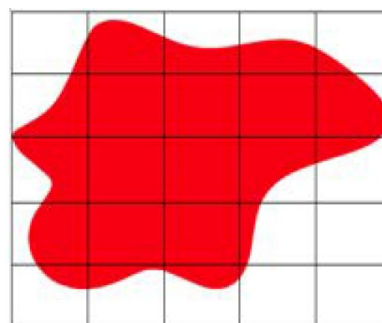
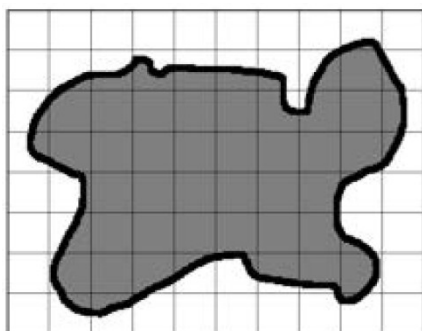


Reasoning

3) Each square is 1cm in length.

Order the shapes from largest to smallest.

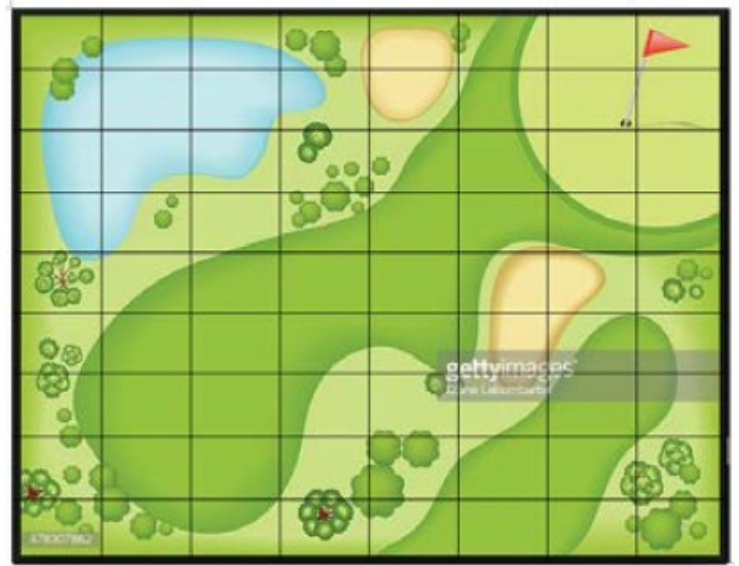
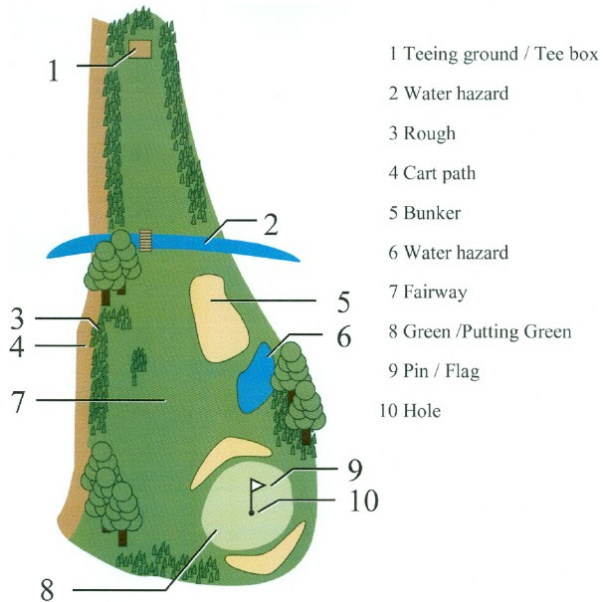
Explain how you know.



4) Draw a circle on 1cm<sup>2</sup> paper. What is the estimated area?

Challenge: Can you draw a circle that has an area of approximately 20cm<sup>2</sup>?

5) Solve the problem.



If each square represents 3m<sup>2</sup>, what is the approximate area of:

- |                    |       |               |       |
|--------------------|-------|---------------|-------|
| - The lake         | _____ | - The bunkers | _____ |
| - The fairway      | _____ | - The rough   | _____ |
| - Tree/forest area | _____ |               |       |

**Diving Deeper:**

6) Solve the problem in your book.

Construct a 'Pirate Island' to be used as part of a treasure map for a new game? Each square represents 4m<sup>2</sup>.

The island must include the following features and be of the given approximate measure:

- Circular Island 180m<sup>2</sup>
- Oval Lake 58m<sup>2</sup>
- Forests with a total area of 63m<sup>2</sup> (can be split over more than one space)
- Beaches with a total area of 92m<sup>2</sup> (can be split over more than one space)
- Mountains with a total area of 57m<sup>2</sup>
- Rocky coastline with total area of 25m<sup>2</sup>