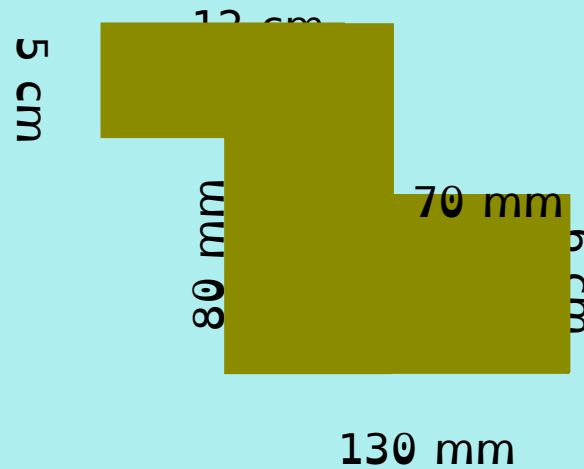


Recap: I can find the area of compound shapes.

True or false? Explain.

The area
of this
compound
shape is
 150 cm^2 .



Sentence-Stems:

- To find area of this compound shape, I first need to ...,
... then I ...
... and finally, I need to ...

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

L.O.: I can reactivate my prior knowledge (...).



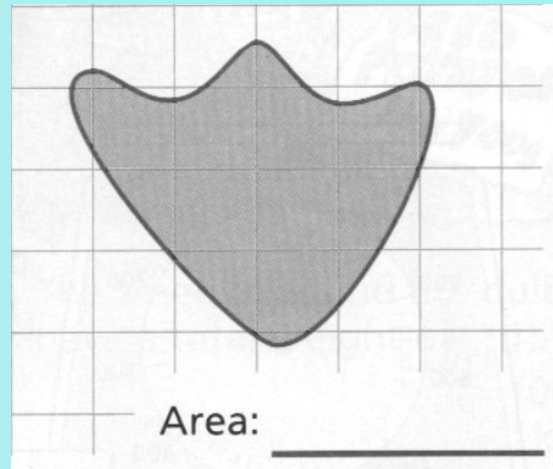
When I estimate, then I need to ...

To correctly estimate, I need to know ...

1. ...
2. ...
3. ...

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

How could you find the approximate area of the duck's footprint?
(each square is 1 cm long and 1 cm wide)



Sentence-Stems:

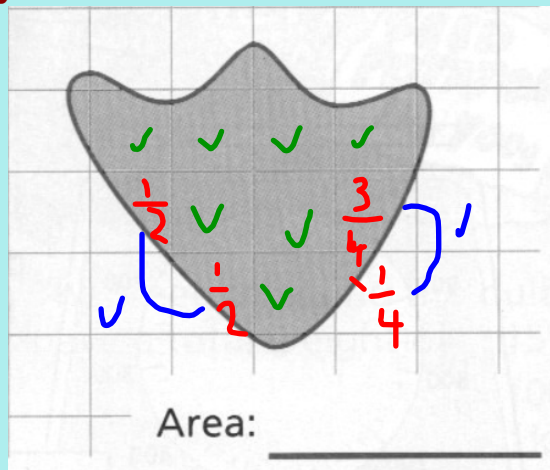
- To estimate the area of an irregular shape, I first ...,
... then I ...
... and finally, I need to ...

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre,
kilometre, length, width, depth, perimeter, area, volume, ruler,
measuring tape, metre stick ...

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

Correct. First, you add the squares that are (almost) full. Then, you roughly add together the parts of the not completely shaded squares. (Always check with the dimensions of the squares!) $\frac{1}{2}$



➔ My estimate would be 9 cm^2 (or 9.5 cm^2).

Sentence-Stems:

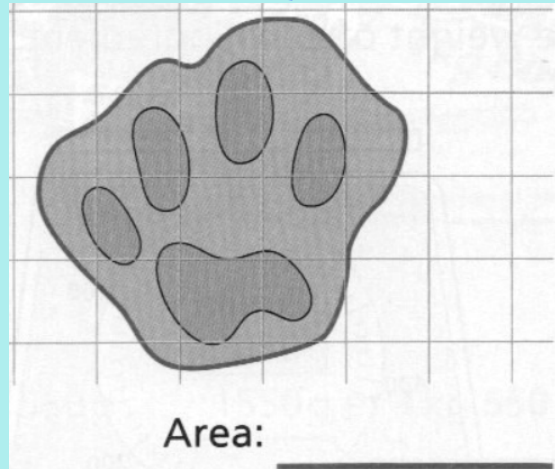
- To estimate the area of an irregular shape, I first ...,
- ... then I ...
- ... and finally, I need to ...

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

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

How could you apply your new knowledge to find the approximate area of the wildcat's footprint? (each square is 2 cm long and 2 cm wide)



Sentence-Stems:

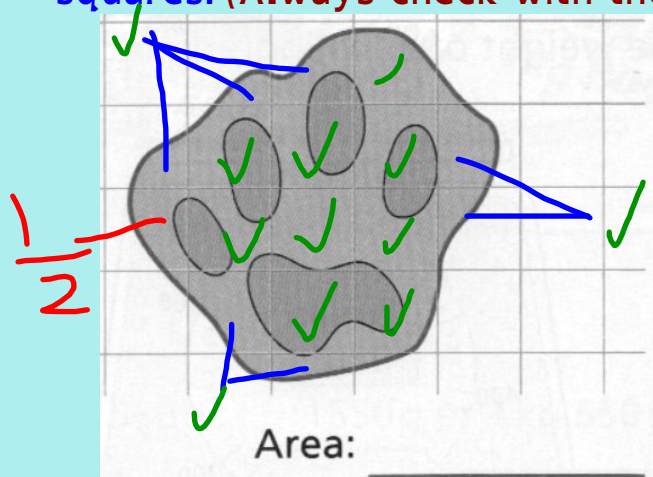
- To estimate the area of an irregular shape, I first ...,
... then I ...
... and finally, I need to ...

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

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

Correct. First, you add the squares that are (almost) full. Then, you roughly add together the parts of the not completely shaded squares. (Always check with the dimensions of the squares!)



My estimate would be 12 and 1/2 squares (each $2\text{cm} \times 2\text{cm} = 4\text{cm}^2$).
Therefore my estimated area is $12.5 \times 4\text{ cm}^2$ is 50cm^2 .

Sentence-Stems:

- To estimate the area of an irregular shape, I first ...,
- ... then I ...
- ... and finally, I need to ...

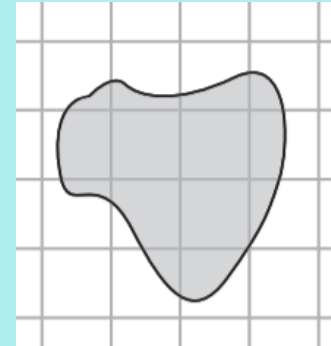
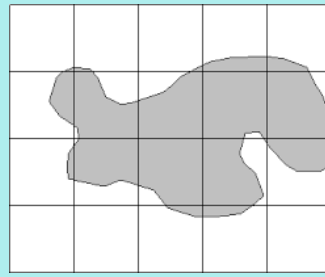
Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

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

Order the shapes from largest to smallest. Explain how you know.

(each square is 1 cm long and 1 cm wide)



Sentence-Stems:

- Shape ... is the largest, because ...
- Shape ... is the smallest, because ...

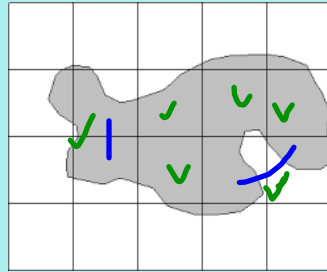
Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

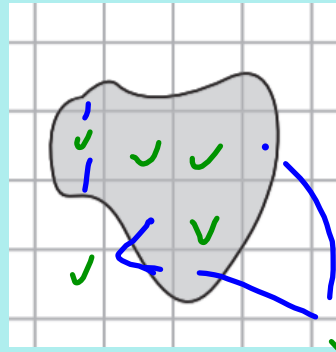
L.O.: I can estimate the area of irregular shapes.

Order the shapes from largest to smallest. Explain how you know.

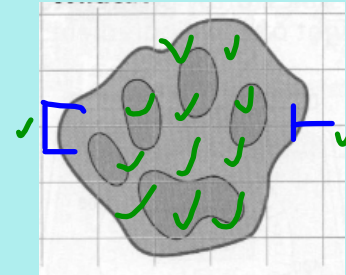
(each square is 1 cm long and 1 cm wide)



ca. 6 cm²



ca. 6.5 cm²



ca. 13 cm²

Sentence-Stems:

- Shape ... is the largest, because ...
- Shape ... is the smallest, because ...

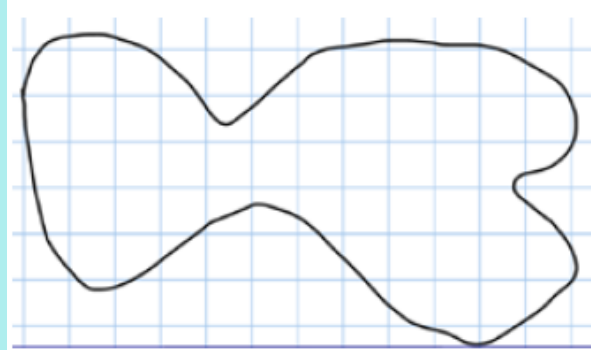
Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...

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

True or false?

If each square is 1cm^2 , then the shape has an area of approximately 57cm^2



Challenge: How would our answer change, if each square has an area of 2cm^2 or 3cm^2 ?

Sentence-Stems:

- If each square is $\dots\text{mm}^2/\text{cm}^2/\text{m}^2$ large, then the whole shape has an area of \dots , because \dots
- To find my answer, I had to \dots , because \dots

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick \dots

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



Task: Complete the tasks from your sheet.



Plenary



What helped me learn and be successful today, was ..., because ...

What made my learning difficult, was ... , because ...

I overcame the struggles by ...

Sentence-Stems:

- If each square is ...mm²/cm²/m² large, then the whole shape has an area of ..., because ...
- To find my answer, I had to ..., because ...

Keywords:

square, multiply, product, measure, millimetre, centimetre, metre, kilometre, length, width, depth, perimeter, area, volume, ruler, measuring tape, metre stick ...