

Can I say what area is and
find the area of a shape?

Year 4, Friday 29th January 2021

Watch the video

- <https://vimeo.com/499229510>
- Now complete the questions on the next slides

What is area?

- 1 a) Work with a partner.

Use 4 sticky notes to make as many different rectilinear shapes as you can.

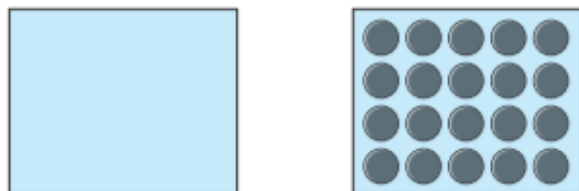
How many different shapes did you make?



- b) All of the shapes that you made have the same area.

Explain how you know that this is correct.

- 2 Amir covers a rectangle with some counters.



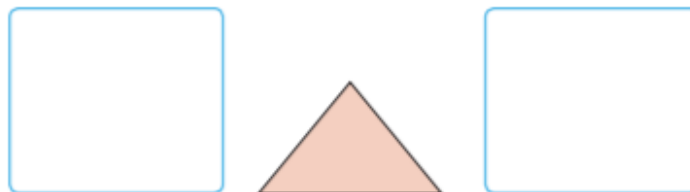
- a) Amir thinks the area of the rectangle is exactly 20 counters.

Is Amir correct? _____

- b) Explain why counters are not the best way to measure area.

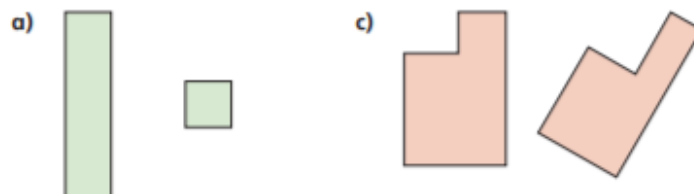


- 3 Eva draws this shape.



- a) To the left, draw a triangle with a smaller area
b) To the right, draw a triangle with a greater area.

- 4 For each pair of shapes, tick the shape with the greater area.



5



A longer object will always have a greater area than a shorter object.

Do you agree with Teddy? _____

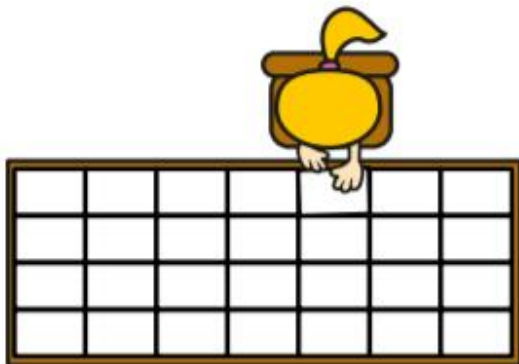
Draw a picture to support your answer.



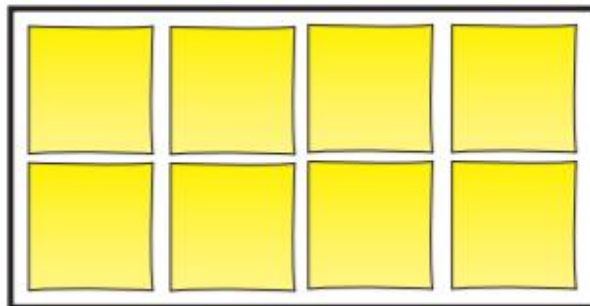
6

Eva is measuring the area of the tabletop.

She has covered the table with exactly 28 sheets of paper.



She covers one sheet of paper with sticky notes.

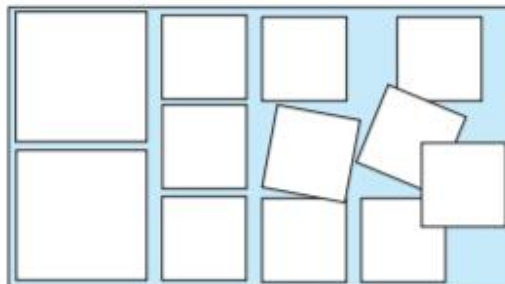


What is the area of the **tabletop** in sticky notes?

sticky notes

7

Kim thinks the area of the rectangle is 12 squares.



Is Kim correct? _____

How do you know?



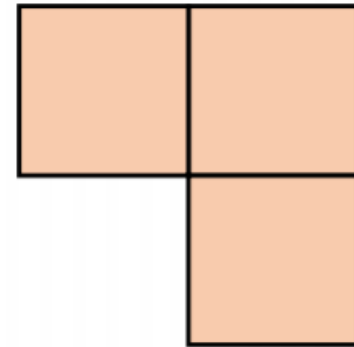
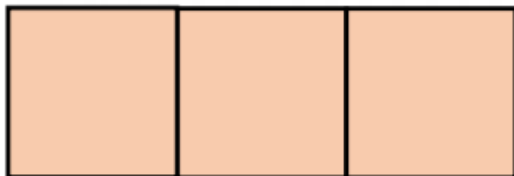
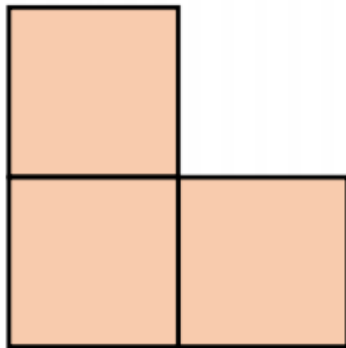
Lightbulb task – use an ACE answer

Answer Calculate Explain

True or False ?

What is area?

Each of the arrangements of squares covers the same area.



ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

What is area?

- 1 a) Work with a partner.

Use 4 sticky notes to make as many different rectilinear shapes as you can.

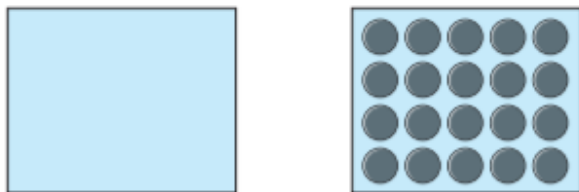
How many different shapes did you make?

5

- b) All of the shapes that you made have the same area.

Explain how you know that this is correct.

- 2 Amir covers a rectangle with some counters.



- a) Amir thinks the area of the rectangle is exactly 20 counters.

Is Amir correct? NO

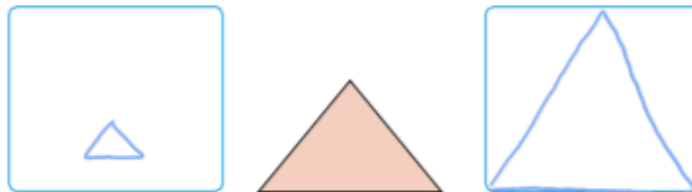
- b) Explain why counters are not the best way to measure area.

They are round so don't fill the space.



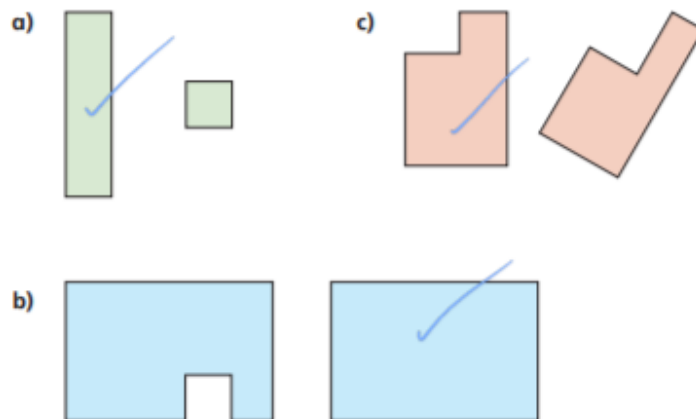
- 3 Eva draws this shape.

E.g.



- a) To the left, draw a triangle with a smaller area
b) To the right, draw a triangle with a greater area.

- 4 For each pair of shapes, tick the shape with the greater area.



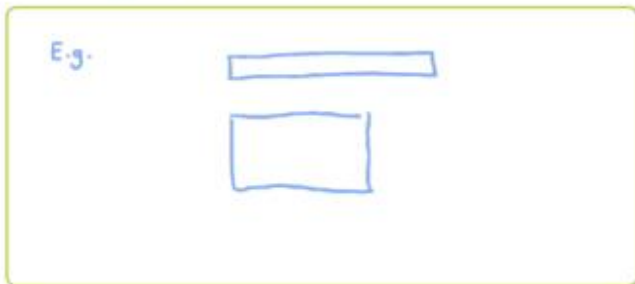
5



A longer object will always have a greater area than a shorter object.

Do you agree with Teddy? No

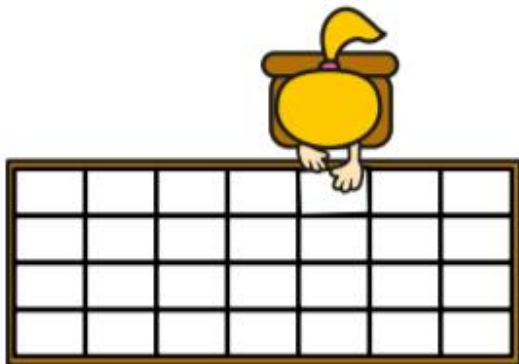
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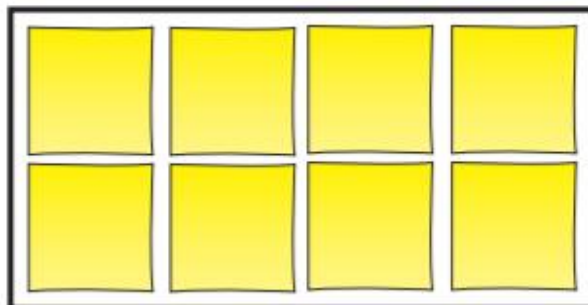
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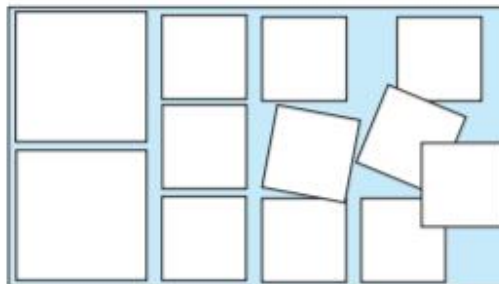


What is the area of the tabletop in sticky notes?

28 sticky notes

7

Kim thinks the area of the rectangle is 12 squares.



Is Kim correct? No

How do you know?



ACE answer lightbulb task

True or False ?

What is area?

Answer

True

Explanation

As the squares are the same size, changing the arrangement does not change the space that they cover.