Power Up

Choose some numbers and operations to make a total of 72.

| 2 | 4 | 5 | 6 | 7 | 8 | 9 |

×   +   −   ÷

Choose a new total. Can you make it using the same digits?

I will see if I can make the same total in 3 different ways.

Answer

Lots of options.

For example;

9 x 8 = 72

72 ÷ 9 = 8

72 ÷ 8 = 9

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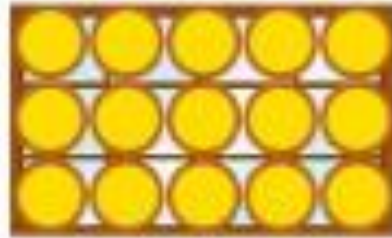
LO: To understand what area is

a) Look at the picture. Which shape is larger, the door or the window? How do you know?

The **area** of a shape is the name we give to the space it takes up.

The larger the shape, the larger its area.
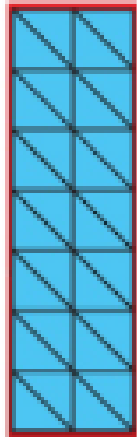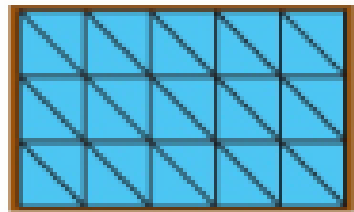
LO: To understand what area is

$3 \times 5 = 15$

The window can be covered by 15 counters

$7 \times 2 = 14$

The door can be cover by 14 counters.

The window is larger because it has a larger area.

b) Is there more than one way to find the answer?
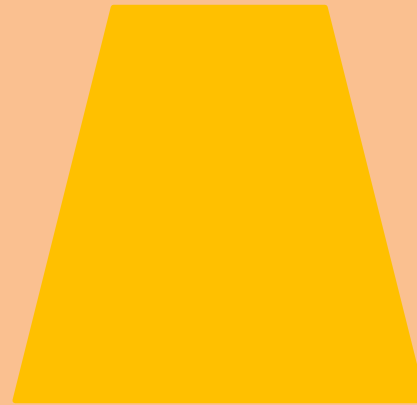The window has 30 triangles and the door has 28 triangles.

LO: To understand what area is

Look at these two shapes. Which one can you fit the most counters into?

rectangle

quadrilateral

The shape with the most space inside and so the space with largest area is...

the rectangle

LO: To understand what area is

Fluency

Which of the two shapes covers most surface?

How do you know?

This is a square sticky note.

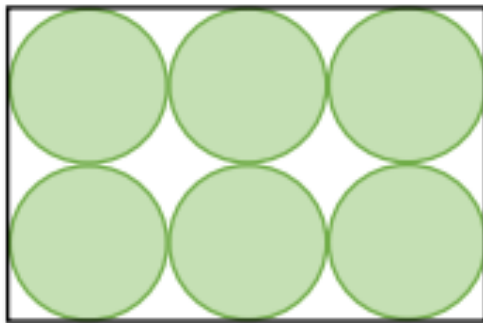Estimate how many sticky notes you need to make these shapes?

Which ones cover the largest amount of surface? Which ones cover the least amount of surface?
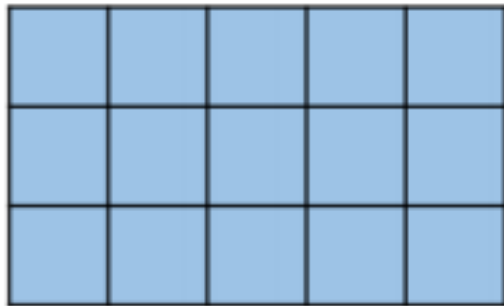
LO: To understand what area is

Reasoning

Teddy and Eva are measuring the area of the same rectangle.

Teddy uses circles to find the area.

Eva uses squares to find the area.

Whose method do you think is more reliable?
Explain why.

Problem Solving

Two children have measured the top of their desk. They used different sized squares.

Dora

The area of the table top is 6 squares.

The area of the table top is 9 squares.

Alex

Who used the largest squares?
How do you know?

LO: To understand what area is

Reasoning

Possible answer:

Eva's method is more reliable than Teddy's because her squares cover the whole surface of the rectangle whereas the circles leave some of the surface uncovered.

Problem Solving

Dora needed fewer squares to cover the space, so her squares must have been the larger ones. If the squares are smaller, you need more of them.