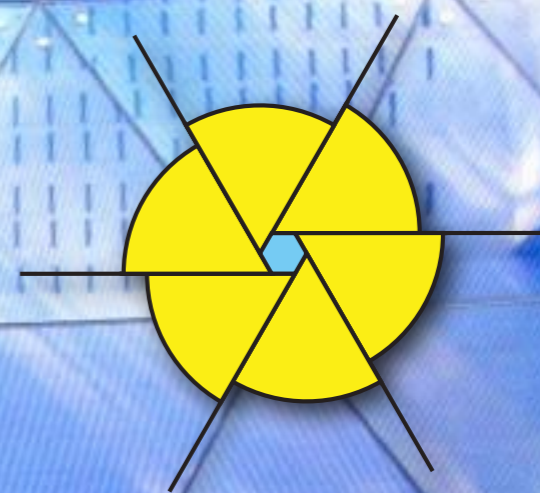
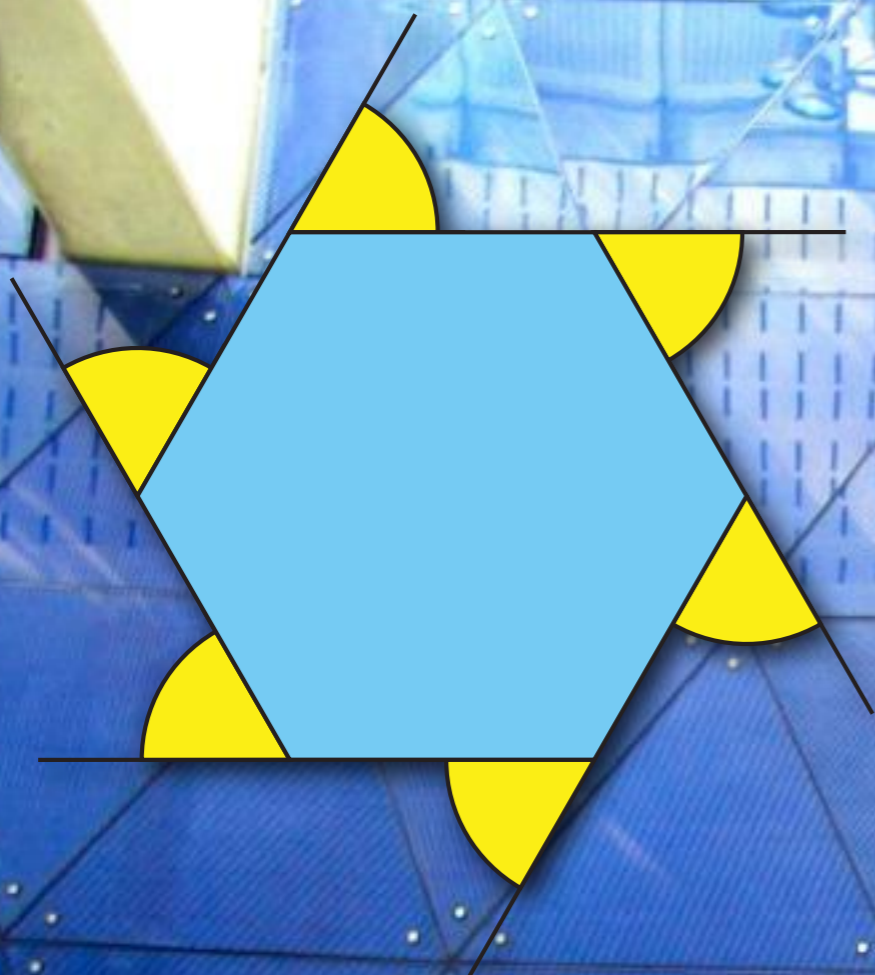


- Write down the sum of the exterior angles of a polygon.
- Calculate the value of each **exterior** angle in a regular hexagon.
- Calculate the value of each **interior** angle in a regular hexagon.

f1



- a Write down the sum of the exterior angles of a polygon.
- b Calculate the value of each **exterior** angle in a regular hexagon.
- c Calculate the value of each **interior** angle in a regular hexagon.

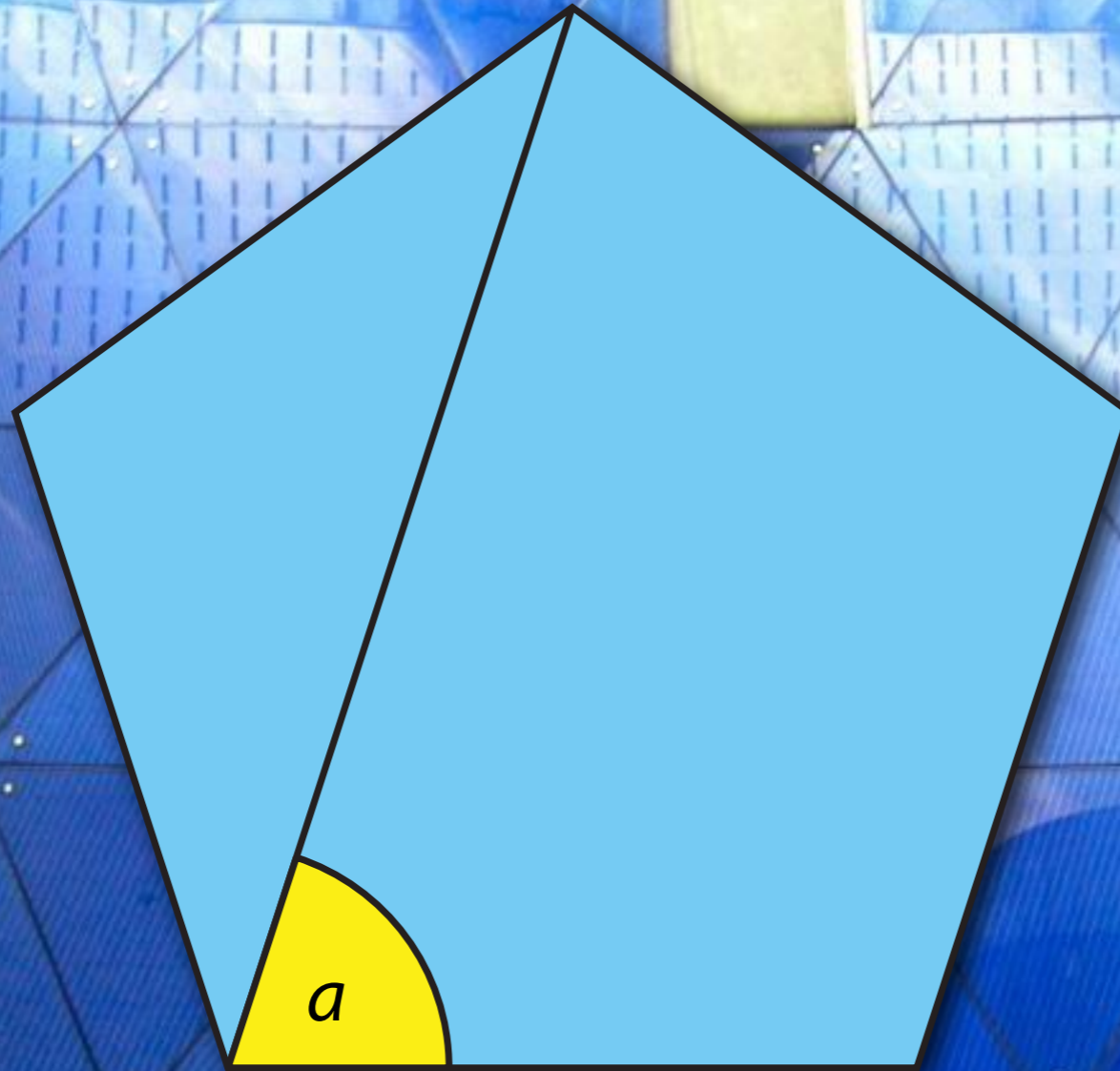
Answer

a 360°

b 60°

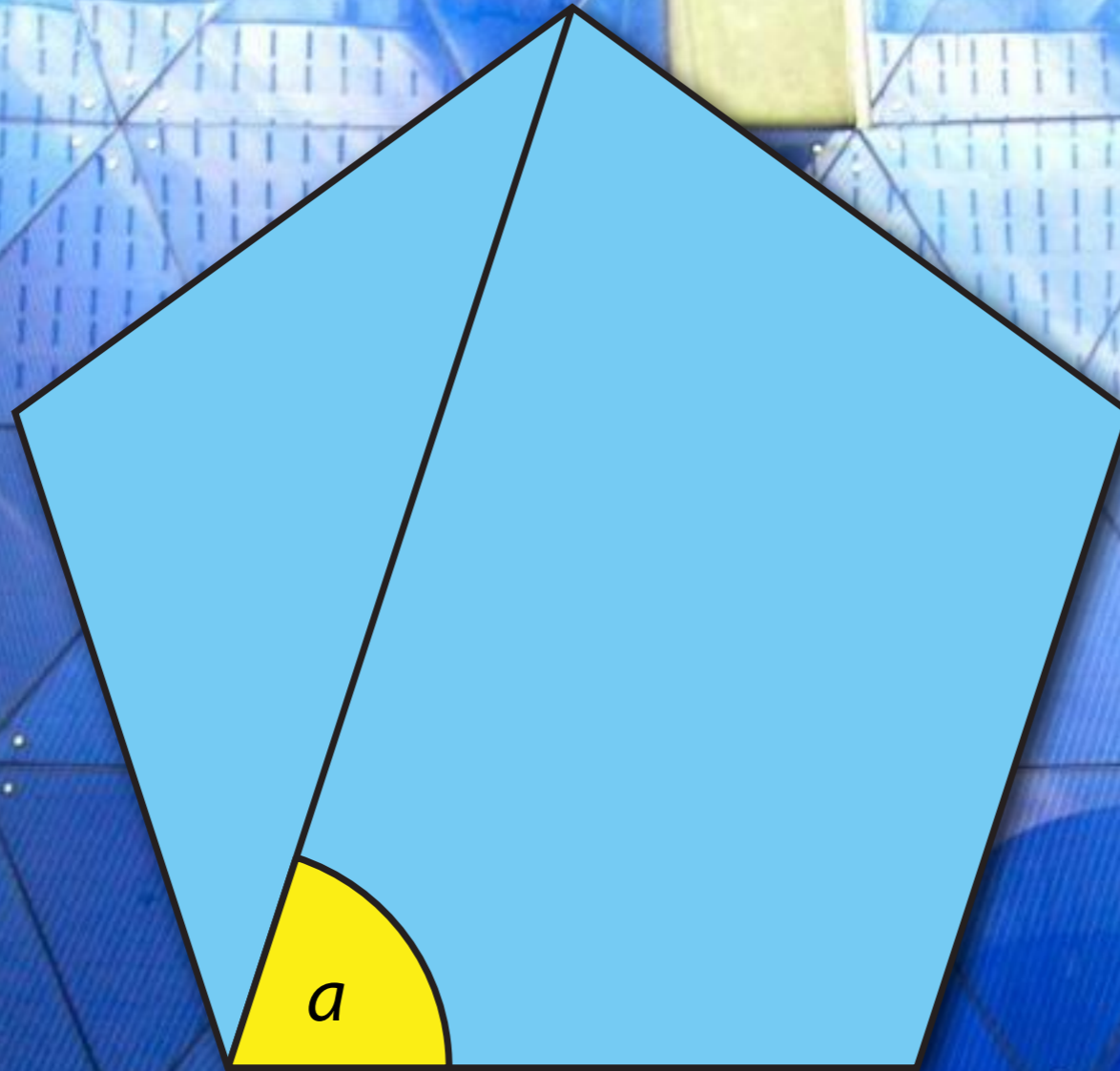
c 120°

f2 The diagram shows a regular pentagon.



Calculate the size of angle a .

f2 The diagram shows a regular pentagon.

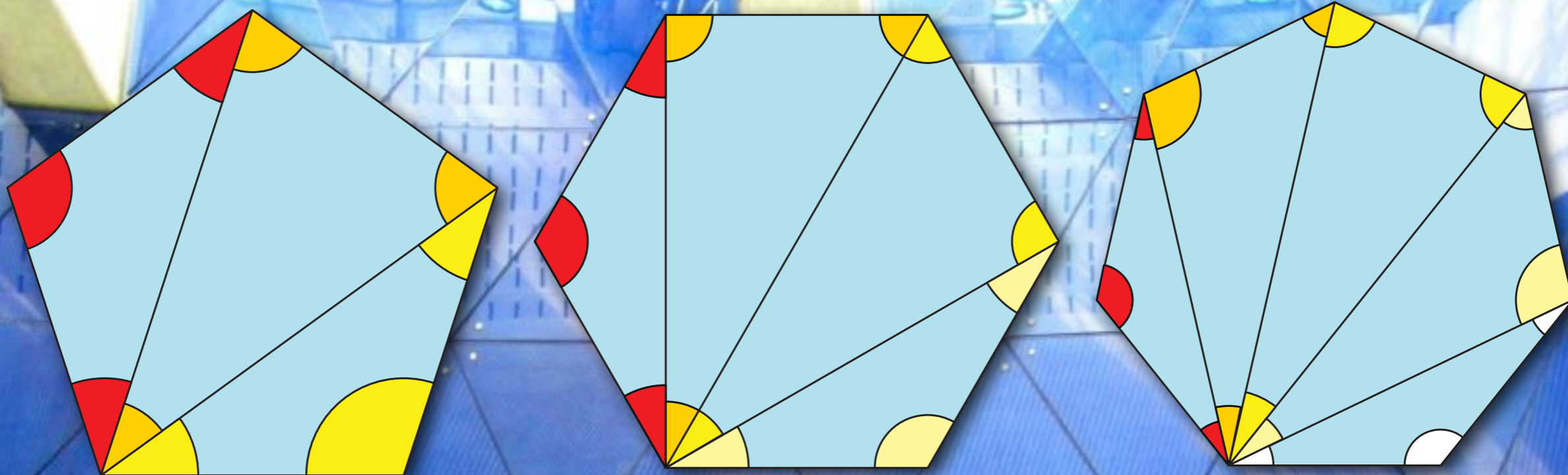


Calculate the size of angle a .

Answer

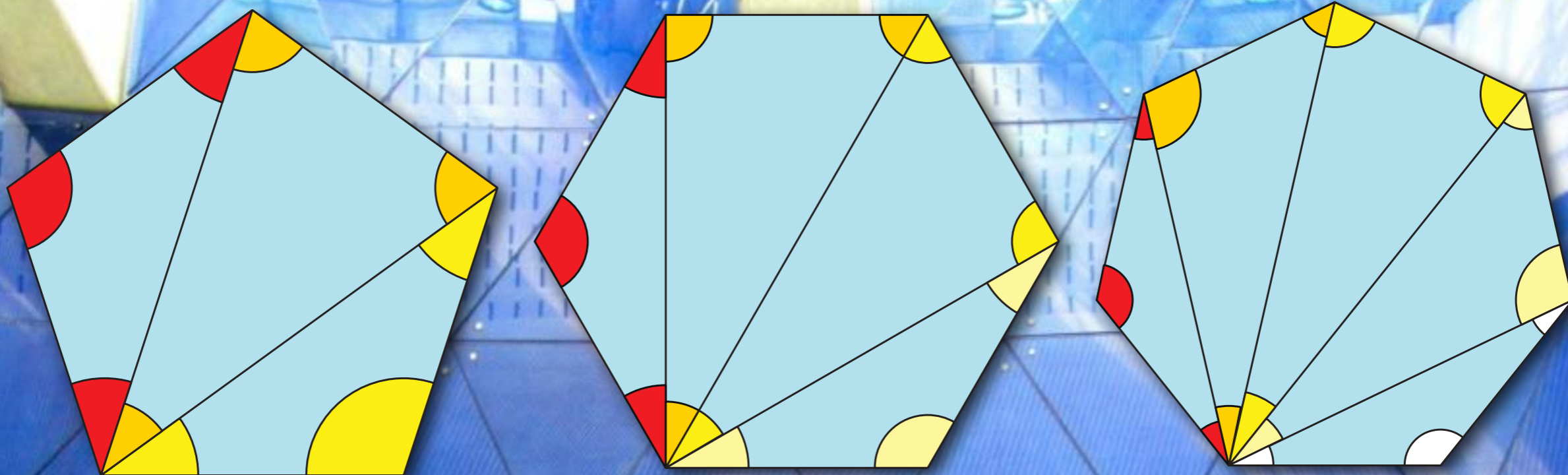
72°

ex



Write a formula for the sum of the interior angles of a polygon.

ex

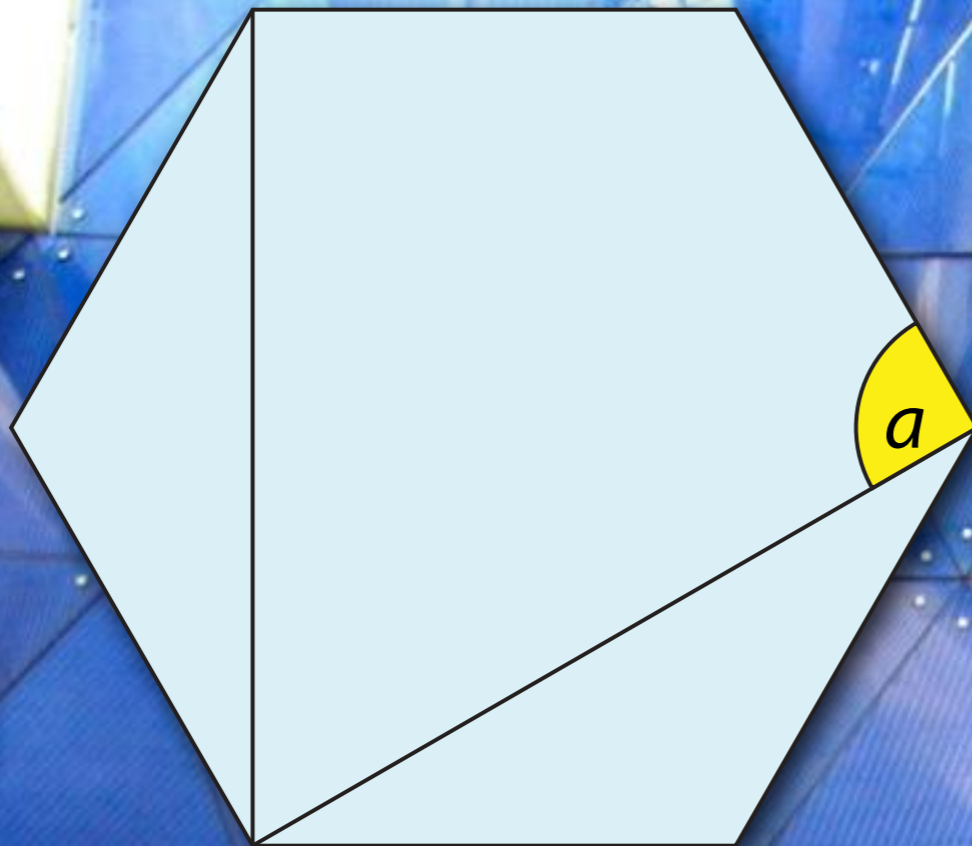


Write a formula for the sum of the interior angles of a polygon.

Answer angle sum = $(n - 2) \times 180^\circ$ where n is the number of sides.

ev

a

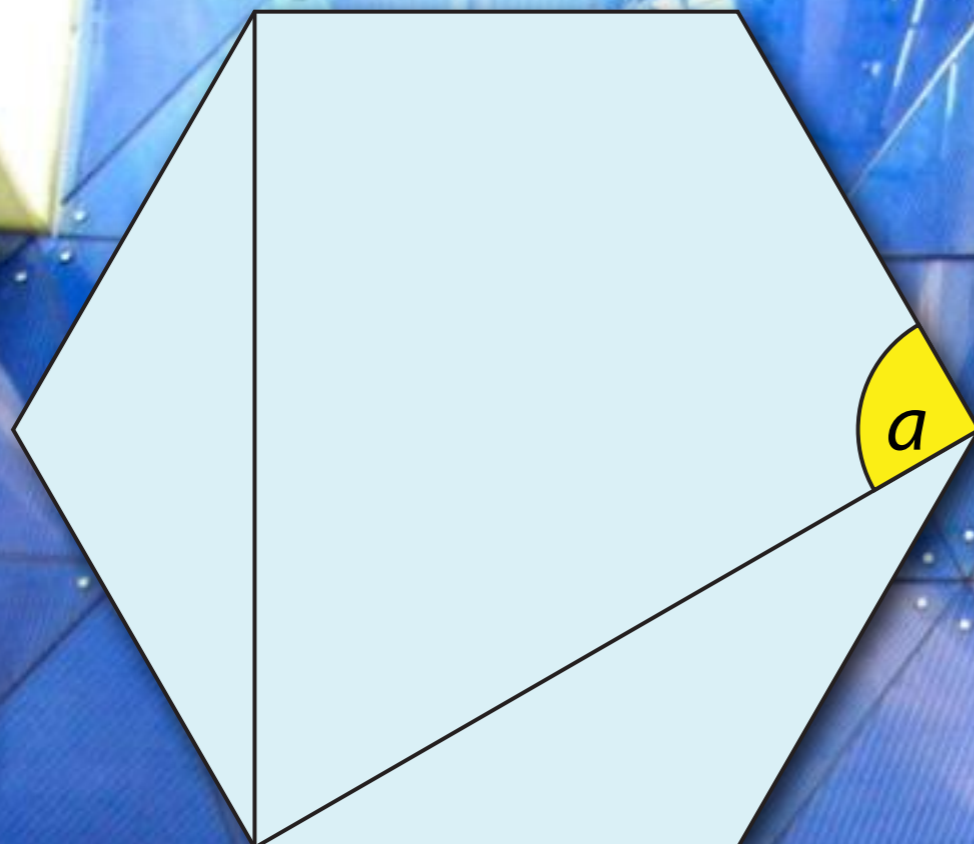


Calculate the size of angle a .

- b** The sum of the internal angles of a polygon is 1800° .
How many sides does the polygon have?

ev

a



Calculate the size of angle a .

- b** The sum of the internal angles of a polygon is 1800° .
How many sides does the polygon have?

Answer

a

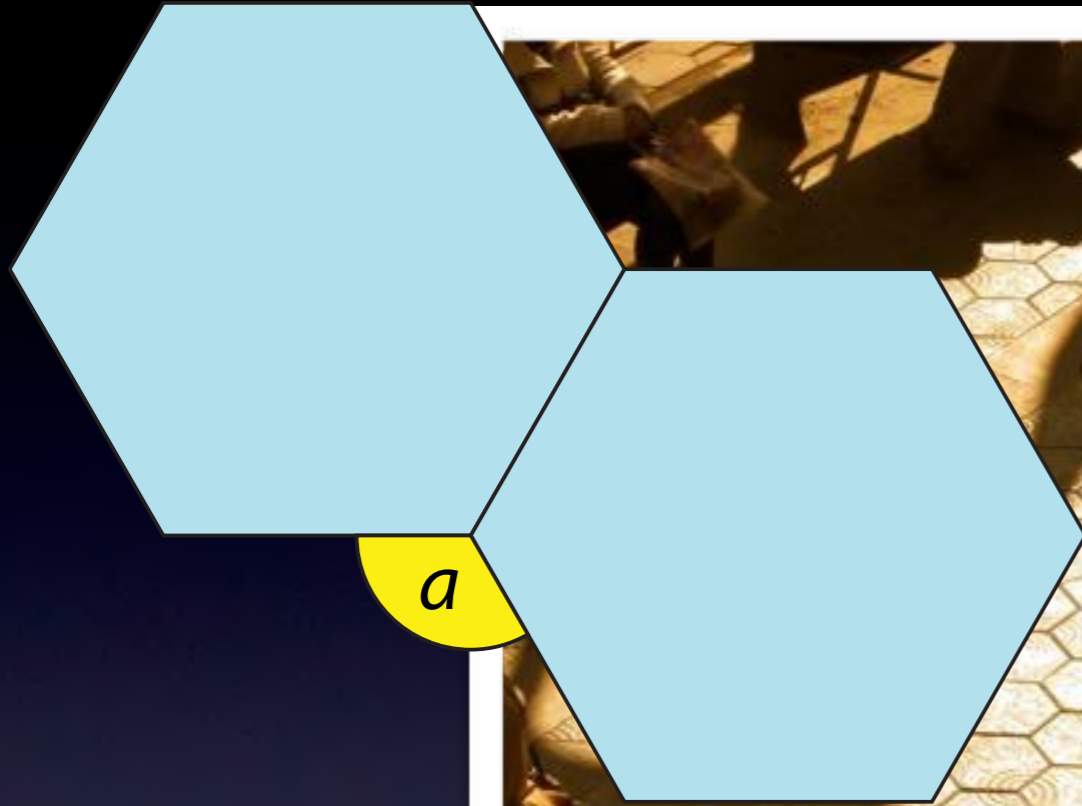
90°

b

12

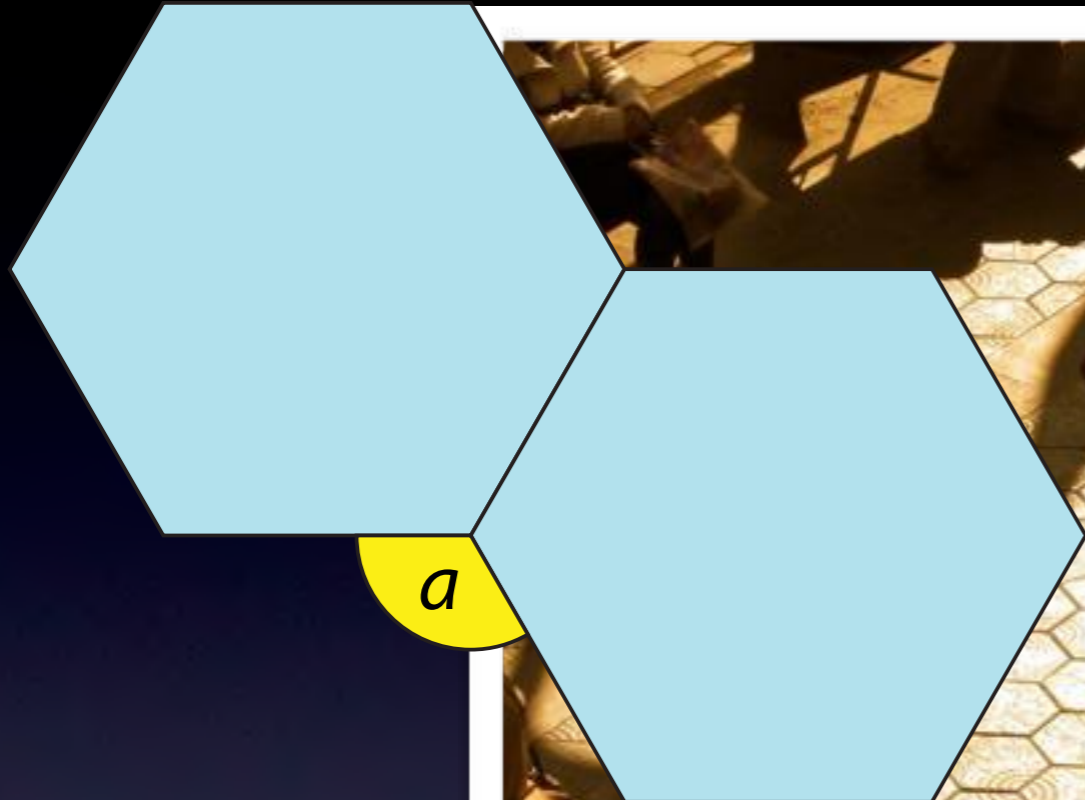
li

Investigate which regular polygons tessellate.



li

Investigate which regular polygons tessellate.



Answer

Shapes where the size of each interior angle is a factor of 360°
Triangles, squares and hexagons.