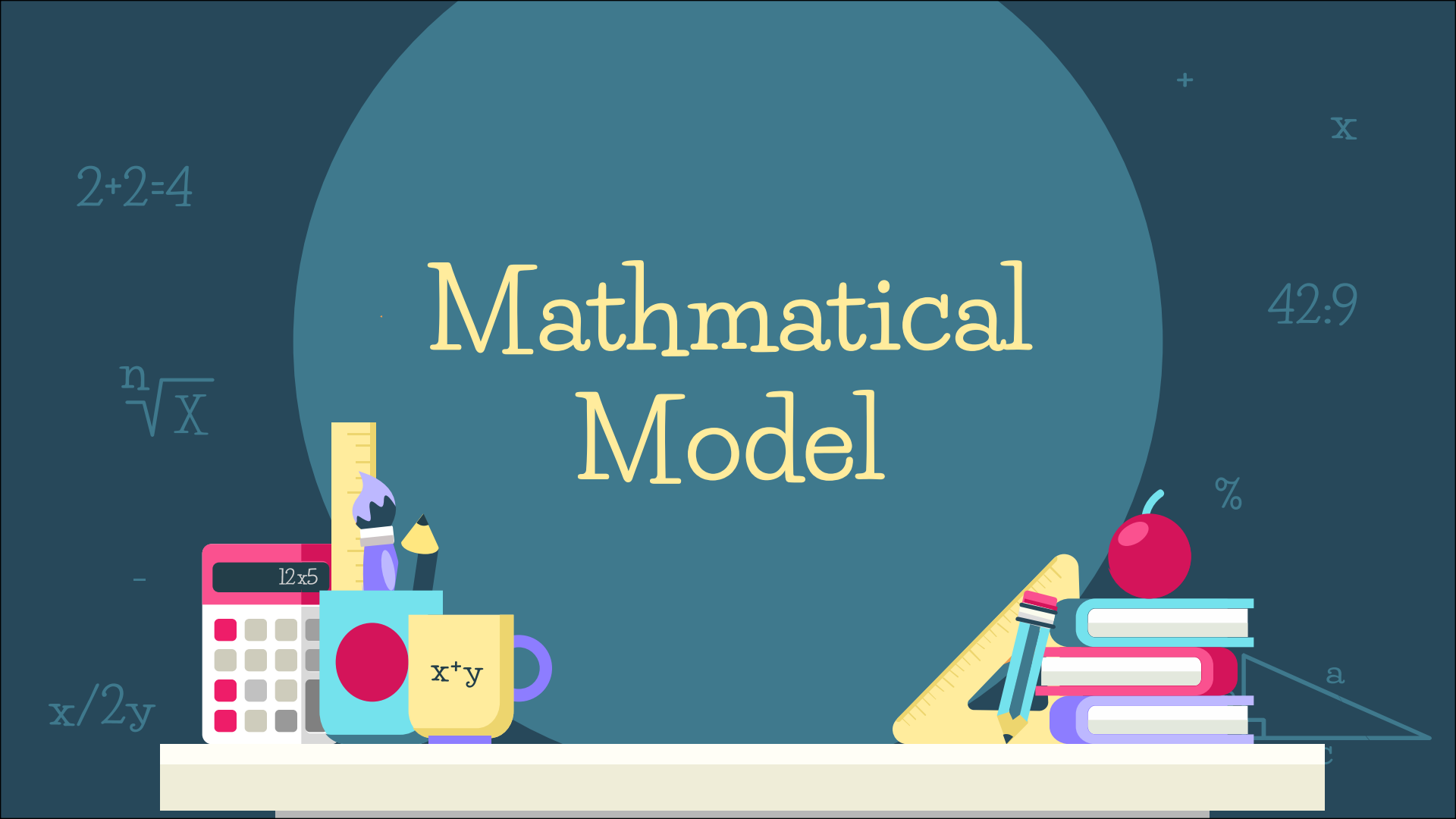
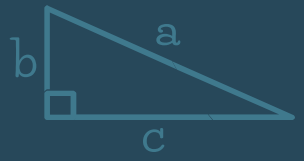
Mathmatical Model



Problem definition

Writing mathematical models for the customer service evaluation robot arm, to identify security and risk areas and locate sensors to achieve high efficiency and achieve safety and security.



2+2=4

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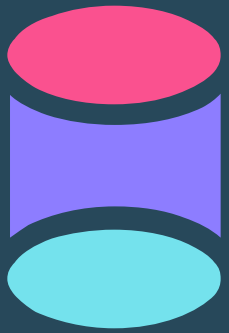
\+

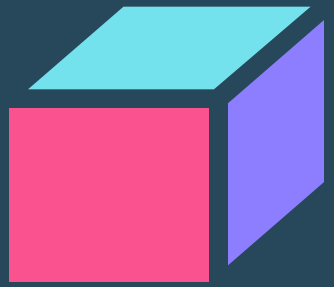
x

42:9

Variables

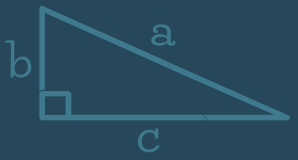
the movement of the arm in 3D it will be x, y and z.

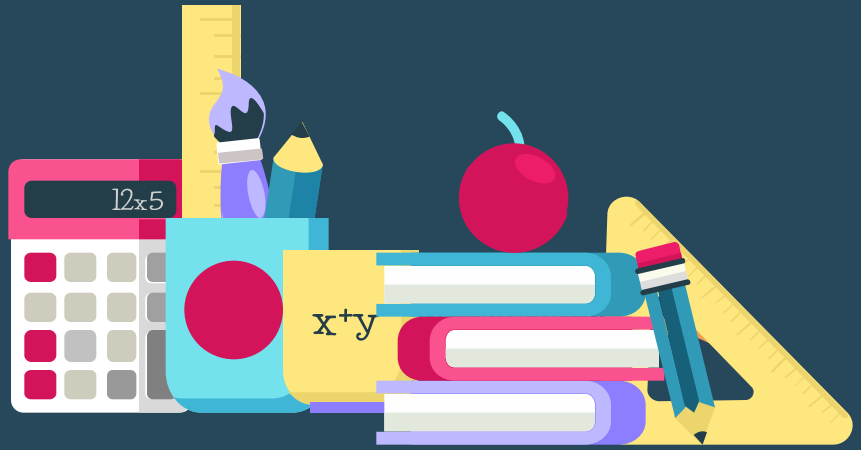




The equation

Will use: 1/8 ball volume law($V = (3/4)\ \pi r^3$), where r is the radius) for 3D.



Results

the allowed area is (1/8 * (3/4) π *85^3) = 321555.0975 cm^3.