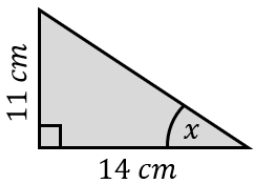
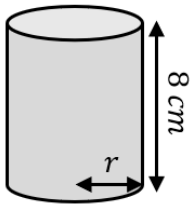
Crack the Code — Calculating with Bounds

A	The length and width of a rectangle are measured to the nearest metre as $6\ m$ and $5\ m$. Find the lower bound of the area of the rectangle.	**B**	A coin is weighed as $30\ g$ to the nearest $5\ g$. Find the upper bound of the weight of 10 coins.
C	The three sides of a triangle are $5\ cm$, $8\ cm$ and $11\ cm$, all measured to the nearest cm. Find the upper bound of the perimeter of the triangle.	**D**	A dog weighs $26\ kg$ to the nearest kg. Its puppy weighs $6.5\ kg$ to the nearest $0.5\ kg$. Find the lower bound of the difference between their weights.
E	A car travels $82\ km$ correct to the nearest km, in 1.5 hours correct to the nearest 0.1 hour. Find the lower bound of the speed in km/h.	**F**	The area of a square is measured as $60\ cm^2$, correct to 1 significant figure. Find the upper bound of the length of the side of the square.
G	The formula $A = \frac{1}{2}ab\sin C$ is used to find the area of a triangle. $a = 12\ cm, b = 9\ cm$ and angle C is $72°$, all correct to 2 significant figures. Find the upper bound of the area A.	**H**	The density of a wooden block is measured as $1.8\ g/cm^3$ to the nearest $0.1\ g/cm^3$ and its volume as $40\ cm^3$ to the nearest $5\ cm^3$. Find the lower bound of the mass of the wooden block in g.
I	The lengths of the right-angled triangle shown are measured correct to 2 significant figures. Find the lower bound of the size of angle x. 	**J**	The cylinder shown has a volume of $400\ cm^3$, correct to the nearest $10\ cm^3$. Its height is $8\ cm$ correct to 1 significant figure. Find the upper bound of the radius of the cylinder. 

To get the three-digit code, add all your answers together and round to the nearest integer.