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| **Crack the Code** | **Calculating with Bounds** |

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| **A** | The length and width of a rectangle are measured to the nearest metre as and . Find the lower bound of the area of the rectangle. | **B** | A coin is weighed as to the nearest . Find the upper bound of the weight of coins. |
| **C** | The three sides of a triangle are , and , all measured to the nearest cm. Find the upper bound of the perimeter of the triangle. | **D** | A dog weighs to the nearest . Its puppy weighs to the nearest . Find the lower bound of the difference between their weights. |
| **E** | A car travels correct to the nearest , in hours correct to the nearest hour. Find the lower bound of the speed in . | **F** | The area of a square is measured as , correct to significant figure. Find the upper bound of the length of the side of the square. |
| **G** | The formula is used to find the area of a triangle.  and angle is , all correct to 2 significant figures. Find the upper bound of the area . | **H** | The density of a wooden block is measured as to the nearest and its volume as to the nearest Find the lower bound of the mass of the wooden block in . |
| **I** | The lengths of the right-angled triangle shown are measured correct to significant figures. Find the lower bound of the size of angle . | **J** | The cylinder shown has a volume of , correct to the nearest . Its height is correct to 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. | | | |