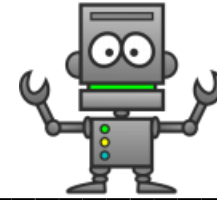


# Rectangular Robot



**Materials:** cm grid paper, rulers

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1. Use centimeter grid paper and a ruler to draw a robot that meets the following criteria:
  - the head must be a rectangle with a perimeter of 28cm
  - the body must be a square with a perimeter of 48cm
  - the neck must be a square with a perimeter of 8cm
  - each arm must be a rectangle with a perimeter of 20cm
  - each leg must be a rectangle with a perimeter of 18cm
2. Include shapes of your own choosing for the following: eyes, hands, feet, mouth, and buttons on the body. Color your robot.
3. Explain how your robot meets the criteria. Show all work.
4. Calculate the total perimeter of your robot. Show your work.
5. Calculate the area of each body part and the total area of your robot. Show your work.