

| | Measurements | Volume | Surface area | Volume to Surface area ratio |
|---|---|---|--|------------------------------|
| Big rectangular prism at front of car | L: 19cm W: 11.47cm H: 13cm | $19 \times 11.47 \times 13 = 2,833.09cm^3$ | $(19 \times 11.47) + 2(11.47 \times 13) + (19 \times 13) = 763.15cm^2$ | 3.71 : 1 |
| Hemispheres at front of the car *2 | R: 1cm | $\frac{2\pi 1^3}{3} = 2.09cm^3$ $2.09 \times 2 = 4.18cm^3$ | $2\pi 1^2 = 6.28cm^2$ $6.28 \times 2 = 12.56cm^2$ | 0.33 : 1 |
| Triangular prism at front of car | S1: 11.47cm S2: 7cm S3: 13.44cm H: 19cm | $(\frac{11.47 \times 7}{2}) \times 19 = 762.76cm^3$ | $(7 \times 11.47) + (19 \times 13.44) = 335.65cm^2$ | 2.27 : 1 |
| Rectangular prism window at front of the car | L: 15cm W: 0.50cm H: 6.58cm | $15 \times 0.5 \times 6.58 = 49.35cm^3$ | $2(15 \times 0.5) + (6.58 \times 11.47) + 2(0.5 \times 19) = 109.47cm^2$ | 0.45 : 1 |
| Cylindrical wheel | R: 2.5cm H: 5.09cm D: 5cm | $\pi 2.5^2 \times 5.09 = 99.94cm^3$ | $2\pi 2.5^2 + (\pi 5 \times 5.09) = 119.22cm^2$ | |
| Hole in cylindrical wheel | R: 2cm H: 1cm D: 4cm | $\pi 2^2 \times 1 = 12.57cm^3$ | $\pi 2^2 + (\pi 4 \times 1) = 25.13cm^2$ | |
| Total cylindrical wheels *10 | Shape SA: $119.22cm^2$ Hole SA: $25.13cm^2$ Shape Volume: $99.94cm^3$ Hole Volume: $12.57cm^3$ | $99.94 - 12.57 = 87.37cm^3$ $87.37 \times 10 = 873.7cm^3$ | $119.22 + 25.13 - 19.63 = 124.72cm^2$ $144.35 \times 10 = 1,443.5cm^2$ | 0.61 : 1 |
| Cylendar at back of car | R: 1cm H: 1.5cm D: 2cm | $\pi 1^2 \times 1.5 = 4.72cm^3$ | $\pi 1^2 + (\pi 2 \times 1.5) = 12.57cm^2$ | 0.37 : 1 |
| Cylinder on top of car | R: 1cm H: 3cm D: 2cm | $\pi 1^2 \times 3 = 9.42cm^3$ | $\pi 1^2 + (\pi 2 \times 3) = 21.99cm^2$ | 0.43 : 1 |
| Big rectangular prism at back of car | L: 40cm W: 19.5cm H: 20cm | $40 \times 19.5 \times 20 = 15,600cm^3$ | $2(40 \times 19.5) + (19.5 \times 20) + 2(40 \times 20) = 3,550cm^2$ | |
| Hole in big rectangular prism at back of car 1 *24 | L: 20cm W: 1cm H: 1cm | $20 \times 1 \times 1 = 20cm^3$ $20 \times 24 = 480cm^3$ | $2(20 \times 1) + (1 \times 1) + (1 \times 20) = 61cm^2$ $61 \times 24 = 1,464cm^2$ | |

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| Hole in big rectangular prism at back of car 2 *4 | L: 19.5cm W: 1cm H: 1cm | $19.5 \times 1 \times 1 = 19.5cm^3$ $19.5 \times 4 = 78cm^3$ | $2(19.5 \times 1) + (1 \times 1) + (1 \times 19.5) = 59.5cm^2$ $29.5 \times 4 = 238cm^2$ | |
| Total big rectangular prism at back of car | Shape SA: $3,940cm^2$ Holes 1 SA: $1,464cm^2$ Holes 2 SA: $238cm^2$ Shape Volume: $15,600cm^3$ Holes 1 Volume: $480cm^3$ Holes 2 Volume: $78cm^3$ | $15,600 - 480 - 78 = 15,042cm^3$ | $3,550 + 238 + 1464 - 480 - 78 = 4,694cm^2$ | 3.2 : 1 |
| Total shape | | $19,579.18cm^3$ | $7,392.89cm^2$ | 2.65 : 1 |