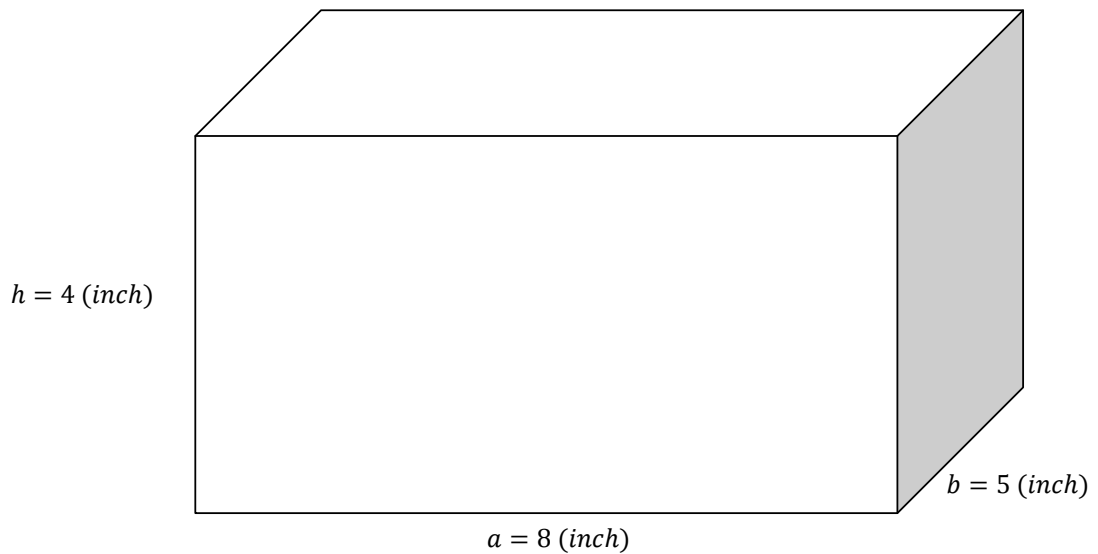


A rectangular is used for a gift. How much wrapping paper would it need if its dimensions are 8in by 4in by 5in?

Solution:



We need to find the area of the lateral surface of the cuboid. The cuboid has six faces. They are pair wise equal. Thus we have

$$S = 2(ab + ah + hb)(\text{square inches})$$

So

$$S = 2 \cdot (8 \cdot 4 + 8 \cdot 5 + 4 \cdot 5) = 2 \cdot (32 + 40 + 20) = 184 (\text{square inches})$$

Answer: 184 square inches of wrapping paper