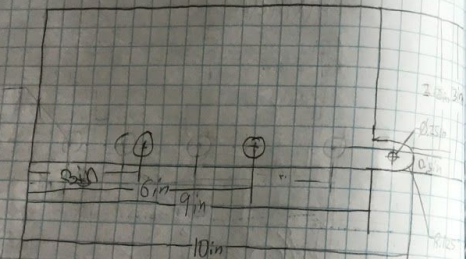


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Toy Train Final Sketch

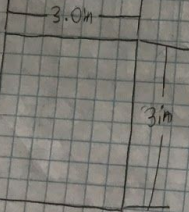
Side Piece:
(2x)

Surface Area:
 $9 \cdot 3 = 27 \text{ in}^2$
 $0.75 \cdot 1 = 0.75 \text{ in}^2$
 (27.75 in^2)



Front/Back Piece:
(2x)

Surface Area:
 $3 \cdot 3 = 9 \text{ in}^2$

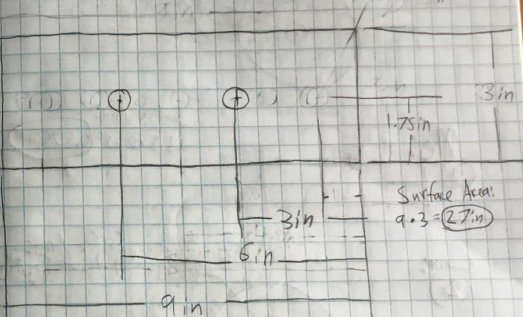


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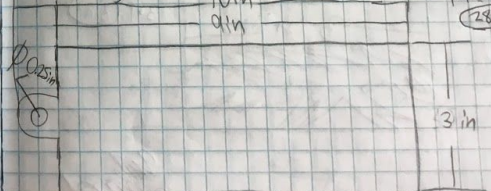
Top Piece:
(1x)



Surface Area:
 $9 \cdot 3 = 27 \text{ in}^2$

Bottom Piece:
(1x)

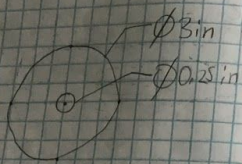
Surface Area:
 $9 \cdot 3 = 27 \text{ in}^2$
 $1 \cdot 1 = 1 \text{ in}^2$
 (28 in^2)



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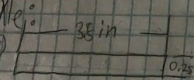
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Wing 1:
(4)



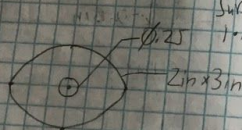
Surface Area:
 $\pi 1.5^2 = 2.09 \text{ in}^2$

Wing 2:
(2)



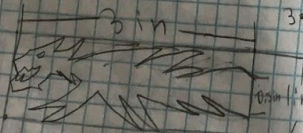
Surface Area:
 $3.5 \times 0.25 = 0.875 \text{ in}^2$

Cam:
(2)



Surface Area:
 $1 + 1.5 = 2.5 \text{ in}^2$

Dragon 1:
(1)



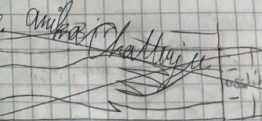
Surface Area:
 $3 \times 1 = 3 \text{ in}^2$

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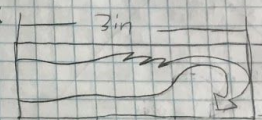
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Dragon 2:
(1)



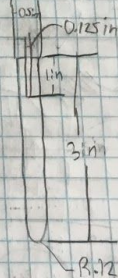
Surface Area:
 $3 \times 1 = 3 \text{ in}^2$

Dragon 3:
(1)



Surface Area:
 $3 \times 1 = 3 \text{ in}^2$

Connector:
(2)



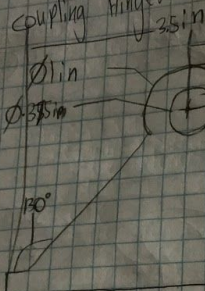
$0.5 \times 3 = 1.5 \text{ in}^2$

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Coupling Hinge:

$\phi 1in$
 $\phi 3/4in$



Surface
3.5 x 2.25

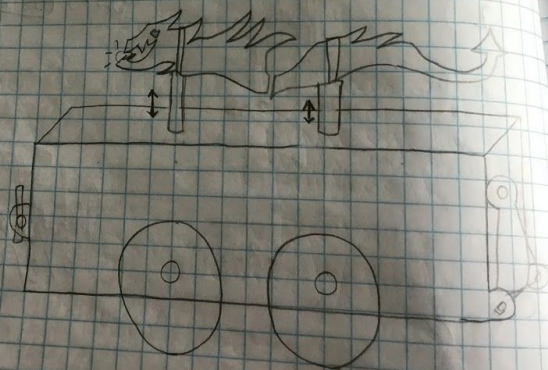
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Elements and

8 design elements:

- Point
 - Most basic element of design
 - Position, No.
 - Indicates
- Color
 - Describes a quality
 - Hue: Base
 - Value: Light
- Shape
 - 2D area w/ curves
- Geometry
 - Organics
- Space
 - Area b/w shapes
 - Shows
 - Positive

Final Sketch Orthographic View



7 Principles

- Balance
 - Visual
 - Sym
 - Rad

Mika Chatterjee
3/7/18