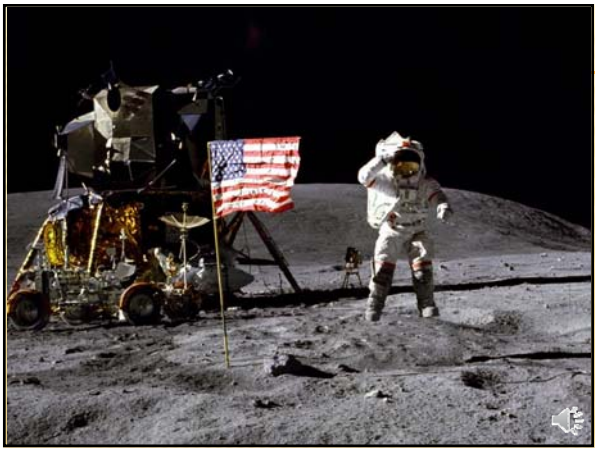
MasterMath

Geometry

SURFACE AREA OF PRISMS



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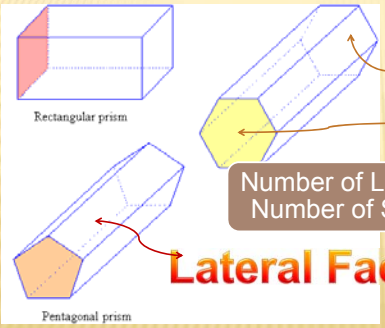

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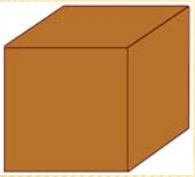

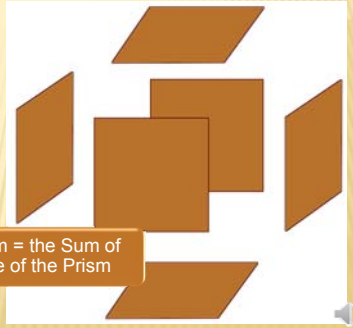

Surface Area of a Prism = the Sum of the Area of Each Face of the Prism

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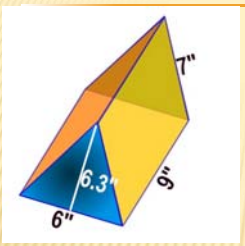


De-Construct Shape:

2 Triangular Bases:

2 * ½ * 6 * 6.3

= 37.8 sq. in.

3 Lateral Faces

2 * 9 * 7 + 1 * 9 * 6

= 180 sq. in.

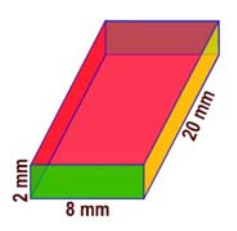
Total

37.8 + 180

= 217.8 sq. in.

You Try It

SURFACE AREA OF PRISMS



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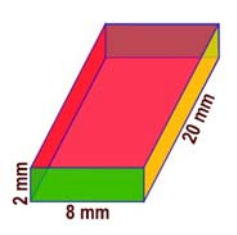


De-Construct Shape:

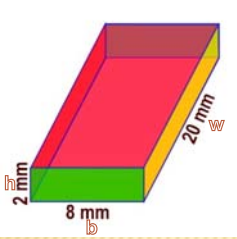
2 Rectangular Bases:
2 * 2 * 8
= 32 sq mm

4 Lateral Faces
(2*20*2) + (2*20*8)
= 400 sq mm

Total
32 + 400
= 432 sq mm

You Try It

SURFACE AREA OF PRISMS

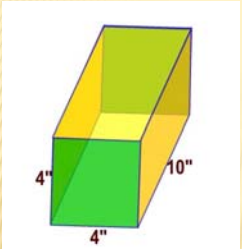


S.A. = 2bh + 2 bw + 2 hw

S.A. = (2*8*2)
+ (2*8*20)
+ (2*2*20)
= 432 sq cm

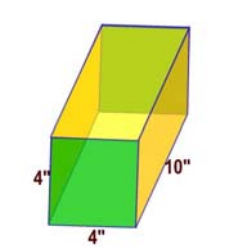
You Try It

SURFACE AREA OF PRISMS



You Try It

SURFACE AREA OF PRISMS



De-Construct Shape:

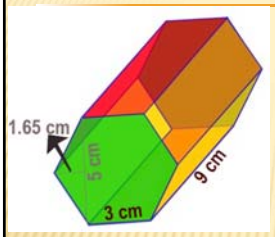
2 Square Bases:
2 * 4 * 4
= 32 sq in

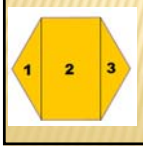
4 Lateral Faces
4 * 4 * 10
= 160 sq in

Total
32 + 160
= 192 sq in

You Try It

SURFACE AREA OF PRISMS





You Try It

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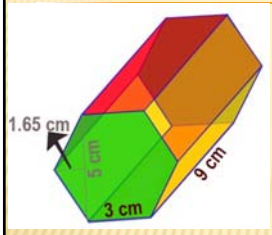

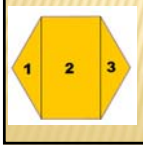

De-Construct Shape:

2 Hexagonal Bases:
2 * [(3 * 5) + 2 (½ *5 * 1.65)]
= 46.5 sq. cm.

6 Lateral Faces
6 * 9 * 3
= 162 sq. cm.

Total
46.5 + 162
= 208.5 sq. cm.

You Try It