

Name : _____

Surface Area and Volume

L2S1

- 1) The volumes of two similar cylinders are 64 cubic inches and 8 cubic inches. Find the surface area of the smaller cylinder, if the surface area of the larger cylinder is 32 square inches.

- 2) X and Y are similar triangular prisms. The surface areas of X and Y are 16 square feet and 73.96 square feet respectively. What will be the volume of X, if the volume of Y is 238.521 cubic feet?

- 3) B and C are similar
respectively. If the

and 54 cubic yards
area of C.

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- 4) The surface areas of
respectively. Deter

yards and 49 square yards
yards.

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- 5) The surface areas of
volume of each fig

square inches. Find the
es.

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- 6) The volumes of two similar rectangular pyramids are 1,024 cubic feet and 1,458 cubic feet. If the sum of their surface areas is 435 square feet, determine the surface area of each pyramid.

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Answer key

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- 1) The volumes of two similar cylinders are 64 cubic inches and 8 cubic inches. Find the surface area of the smaller cylinder, if the surface area of the larger cylinder is 32 square inches.

8 square inches

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756 cubic inches ; 1,200.5 cubic inches

- 6) The volumes of two similar rectangular pyramids are 1,024 cubic feet and 1,458 cubic feet. If the sum of their surface areas is 435 square feet, determine the surface area of each pyramid.

192 square feet ; 243 square feet

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