

Name : _____

Surface Area and Volume

L151

- 1) The scale factor of two similar cylinders is $1.2 : 5.3$. If the surface area of the smaller cylinder is 4.32 square inches, find the surface area of the larger cylinder.

- 2) P and Q are similar hexagonal pyramids. The scale factor of P to Q is $6 : 1$. If the volume of Q is 8 cubic yards, find

- 3) C and D are similar _____ would be the surface area of C, if the surface area of D is _____

- 4) The cones F and G are similar. If the volume of cone F is 1,093.5 cubic inches, what would be the volume of cone G is _____

- 5) T and U are similar heptagonal prisms. The scale factor of T to U is $9.3 : 8.9$. If the surface area of U is 237.63 square yards, what would be the surface area of T?

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Answer key

Surface Area and Volume

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- 1) The scale factor of two similar cylinders is $1.2 : 5.3$. If the surface area of the smaller cylinder is 4.32 square inches, find the surface area of the larger cylinder.

84.27 square inches

- 2) P and Q are similar hexagonal pyramids. The scale factor of P to Q is $6 : 1$. If the volume of Q is 8 cubic yards, find _____

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- 3) C and D are similar _____ would be the surface area of
C, if the surface area of D is _____

- 4) The cones F and G are similar. The volume of cone F is 1,093.5 cubic inches. The volume of cone G is _____

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96 cubic inches

- 5) T and U are similar heptagonal prisms. The scale factor of T to U is $9.3 : 8.9$. If the surface area of U is 237.63 square yards, what would be the surface area of T?

259.47 square yards