

Name : _____

Surface Area and Volume

L2S2

- 1) G and H are similar hexagonal prisms. The surface areas of G and H are 98 square feet and 128 square feet respectively. What will be the volume of G, if the volume of H is 2,048 cubic feet?

- 2) The volumes of similar pentagonal pyramids S and T are 729 cubic yards and 64 cubic yards respectively. If the surface area of S is 20.25 square yards, find the surface area of T.

- 3) U and V are similar
respectively. Deter

ches and 99 square inches
inches.

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- 4) Two figures are sim
area of the larger fi

c inches. Find the surface
square inches.

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- 5) The volumes of tw
the surface area of

8,645 cubic feet. What is
square feet?

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- 6) The sum of volumes of two similar heptagonal prisms is 170.5 cubic yards. Determine the surface area of each prism, if the surface areas of prisms are 504 square yards and 350 square yards.

Name : _____

Answer key

Surface Area and Volume

L2S2

- 1) G and H are similar hexagonal prisms. The surface areas of G and H are 98 square feet and 128 square feet respectively. What will be the volume of G, if the volume of H is 2,048 cubic feet?

1,372 cubic feet

- 2) The volumes of similar pentagonal pyramids S and T are 729 cubic yards and 64 cubic yards respectively. If the surface area of S is 20.25 square yards, find the surface area of T.

- 3) U and V are similar _____
respectively. Deter

_____ inches and 99 square inches
inches.

- 4) Two figures are similar _____
area of the larger fi

_____ inches. Find the surface
square inches.

- 5) The volumes of two _____
the surface area of

_____ 3,645 cubic feet. What is
square feet?

38.7 square feet ; 348.3 square feet

- 6) The sum of volumes of two similar heptagonal prisms is 170.5 cubic yards. Determine the surface area of each prism, if the surface areas of prisms are 504 square yards and 350 square yards.

62.5 cubic yards ; 108 cubic yards

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