

Name : \_\_\_\_\_

## Surface Area and Volume

L153

- 1) A and B are similar pentagonal pyramids. The scale factor of A to B is 4 : 1.5. If the surface area of A is 32 square yards, determine the surface area of B.

\_\_\_\_\_

- 2) M and N are similar rectangular prisms and the scale factor of N to M is 7.6 : 9.3. What will be the surface area of \_\_\_\_\_

- 3) The scale factor of \_\_\_\_\_ of the larger prism is 736.95 cubic inches

- 4) L and K are similar \_\_\_\_\_ Determine the volume of K, if the volume of L is \_\_\_\_\_

- 5) E and F are similar figures. The scale factor of E to F is 3 : 1. If the surface area of E is 1,350 square feet, what would be the surface area of F?

\_\_\_\_\_

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## Answer key

### Surface Area and Volume

L153

- 1) A and B are similar pentagonal pyramids. The scale factor of A to B is 4 : 1.5. If the surface area of A is 32 square yards, determine the surface area of B.

\_\_\_\_\_

**4.5 square yards**

- 2) M and N are similar rectangular prisms and the scale factor of N to M is 7.6 : 9.3. What will be the surface area of \_\_\_\_\_

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- 3) The scale factor of \_\_\_\_\_ of the larger prism is 736.95 cubic inches

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- 4) L and K are similar \_\_\_\_\_ Determine the volume of K, if the volume of L is \_\_\_\_\_

\_\_\_\_\_

**1,296 cubic yards**

- 5) E and F are similar figures. The scale factor of E to F is 3 : 1. If the surface area of E is 1,350 square feet, what would be the surface area of F?

\_\_\_\_\_

**150 square feet**