Math 6 - Unit 5: Area \& Volume
Surface Area \& Volume Practice

Name: $\qquad$
Class Period: 1234 Date: $\qquad$

## Volume

(Show work and circle your answer.)
$V=l w h \quad O R \quad V=B h$

| Rectangular Prism | Surface Area <br> (Show work and circle your answer.) | Volume <br> (Show work and circle your answer.) <br> V $=$ Iwh OR $\quad \mathrm{V}=\mathrm{Bh}$ |
| :--- | :--- | :--- | :--- |

9) Circle the choices that relate to volume. Underline the choices that relate to surface area.

Filling a pool with water Wrapping a present The amount of cereal in a box Painting a house
10) How are surface area and volume alike? $\qquad$
11) How are surface area and volume are different? $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Find the volume and surface area of each prism.
1)

2)

3)


Find the volume of each prism.
4)

5)

6)

7) TOYS Geneva's younger brother has a toy box that is 3.6 feet long, 2.4 feet wide, and 1.5 feet high. What is the volume of the toy box?
8) What is the volume of a rectangular prism with a length of 11 meters, width of 26 meters, and height of 38 meters?

9) BAKING The bread loaf pan shown is filled to a height of 2 inches with banana bread batter. How much more batter could the pan hold before it overflowed?


Surface Area \& Volume Practice ANSWER KEY

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## Volume

(Show work and circle your answer.)
$V=I w h \quad O R \quad V=B h$
2) $V=300 \mathrm{~m}^{3}$
4) $V=60$ units $^{3}$

|  | 5) $\mathrm{SA}=150 \mathrm{in}^{2}$ | 6) $V=125 \mathrm{in}^{3}$ |
| :---: | :---: | :---: |
|  | 7) $\mathrm{SA}=58 \mathrm{~m}^{2}$ | 8) $V=28 \mathrm{~m}^{3}$ |

9) Circle the choices that relate to volume. Underline the choices that relate to surface area.

Filling a pool with water
Wrapping a present
The amount of cereal in a box
Painting a house
10) How are surface area and volume alike? Both require you to multiply using side measurements
11) How are surface area and volume are different? Surface Area is the total area of all of the surfaces of the figure. It is a measurement of the area of the OUTSIDE of a figure. Volume is the total capacity of the INSIDE of a figure.

Surface Area \& Volume Practice ANSWER KEY
$\qquad$
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Find the volume and surface area of each prism.


SA: 286 yd $^{2}$
V: $315 \mathrm{yd}^{3}$


SA: $216 \mathrm{~mm}^{2}$
V: $180 \mathrm{~mm}^{3}$
3)


SA: $252 \mathrm{ft}^{2}$
V: $216 \mathrm{ff}^{3}$

Find the volume of each prism.
4)

5)

6)

7) TOYs Geneva's younger brother has a toy box that is 3.6 feet long, 2.4 feet wide, and 1.5 feet high. What is the volume of the toy box? $375 \mathrm{in}^{3}$
8) What is the volume of a rectangular prism with a length of 11 meters, width of 26 meters, and height of 38 meters? $10868 \mathrm{~m}^{3}$

9) BAKING The bread loaf pan shown is filled to a height of 2 inches with banana bread batter. How much more batter could the pan hold before it overflowed? $45 \mathrm{in}^{3}$


