

Worksheet

12/06/2020

Free on dw-math.com

Problem quickname: 6031

1)

For every shape on the left-hand side, find the correct formula for the mentioned property on the right-hand side.

	Shape		Volume
A	A pyramid	1	$V = a^3$
B	A sphere	2	$V = \pi \cdot r^2 \cdot h$
C	A regular tetrahedron	3	$V = a \cdot b \cdot c$
D	A cube	4	$V = A(\text{Grundfläche}) \cdot h$
E	A prism	5	$V = \frac{4}{3} \cdot \pi \cdot r^3$
F	A cylinder	6	$V = \frac{a^3}{12} \cdot \sqrt{2}$

2)

For every shape on the left-hand side, find the correct formula for the mentioned

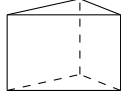
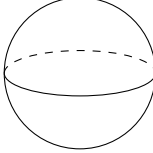




property on the right-hand side.

Shape		Surface area	
A	A prism	1	$A = 4 \cdot \pi \cdot r^2$
B	A cylinder	2	$A = 2 \cdot (a \cdot b + a \cdot c + b \cdot c)$
C	A square pyramid	3	$A = 2 \cdot A(\text{Grundfläche}) + h \cdot (a + b + c)$
D	A sphere	4	$A = 2 \cdot \pi r^2 + 2 \cdot \pi \cdot r \cdot h$
E	A pyramid	5	$A = 6 \cdot a^2$
F	A cube	6	$A = a^2 + a \cdot \sqrt{4 \cdot h^2 + a^2}$

3)

For every shape on the left-hand side, find the correct formula for the mentioned

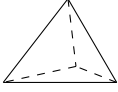
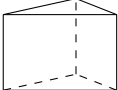




property on the right-hand side.

	Shape		Surface area
A		1	$A = 4 \cdot \pi \cdot r^2$
B		2	$A = a^2 \cdot \sqrt{3}$
C		3	$A = 2 \cdot A(\text{Grundfläche}) + h \cdot (a + b + c)$
D		4	$A = r \cdot \pi \cdot (r + s)$
E		5	$A = 6 \cdot a^2$
F		6	$A = a^2 + a \cdot \sqrt{4 \cdot h^2 + a^2}$

4)

For every shape on the left-hand side, find the correct formula for the mentioned

property on the right-hand side.

	Shape		Volume
A		1	$V = a^3$
B		2	$V = \frac{a^3}{12} \cdot \sqrt{2}$
C		3	$V = \pi \cdot r^2 \cdot h$
D		4	$V = \frac{1}{3} \cdot a^2 \cdot h$
E		5	$V = \frac{1}{3} \cdot \pi \cdot r^2 \cdot h$
F		6	$V = A(\text{Grundfläche}) \cdot h$

Good Luck!