Worksheet

04/14/2020

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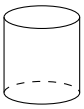
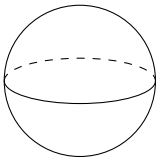
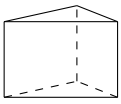
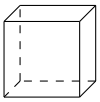
Problem quickname: 6031

1)

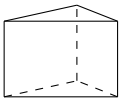
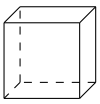
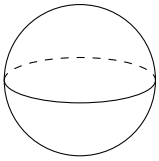
For every shape on the left-hand side, find the correct formula for the mentioned property on the right-hand side.

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

2)

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

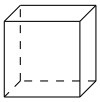
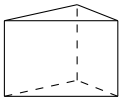
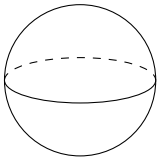
property on the right-hand side.

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

3)

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

property on the right-hand side.

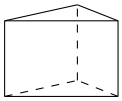
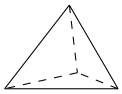
	Shape
A	A cube 
B	A prism 
C	A square pyramid 
D	A pyramid 
E	A sphere 
F	A cylinder 

	Volume
1	$V = \Pi \cdot r^2 \cdot h$
2	$V = a \cdot b \cdot c$
3	$V = \frac{4}{3} \cdot \Pi \cdot r^3$
4	$V = \frac{1}{3} \cdot a^2 \cdot h$
5	$V = a^3$
6	$V = A(\text{Grundfläche}) \cdot h$

4)

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

property on the right-hand side.

	Shape
A	A cylinder 
B	A circular cone 
C	A square pyramid 
D	A prism 
E	A regular tetrahedron 
F	A pyramid 

	Surface area
1	$A = r \cdot \Pi \cdot (r + s)$
2	$A = 2 \cdot A(\text{Grundfläche}) + h \cdot (a + b + c)$
3	$A = 2 \cdot \Pi r^2 + 2 \cdot \Pi \cdot r \cdot h$
4	$A = 2 \cdot (a \cdot b + a \cdot c + b \cdot c)$
5	$A = a^2 + a \cdot \sqrt{4 \cdot h^2 + a^2}$
6	$A = a^2 \cdot \sqrt{3}$

Good Luck!