

Surface Area and Volume of a "Sand Castle" FREEBIE!!!

Name(s): _____

Surface Area and Volume of a Castle

Directions: Find the surface area and volume of the figure below. Show all of your work and round your final answers to the nearest tenth.

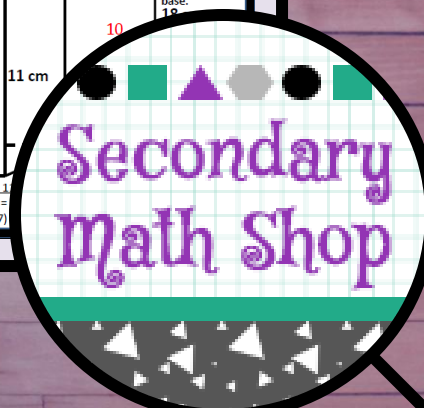
Name(s): _____

Surface Area and Volume of a Castle

Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.

#2 and 11:
 $h = 5^2 + h^2 = 10^2$
 $h = 8.7$

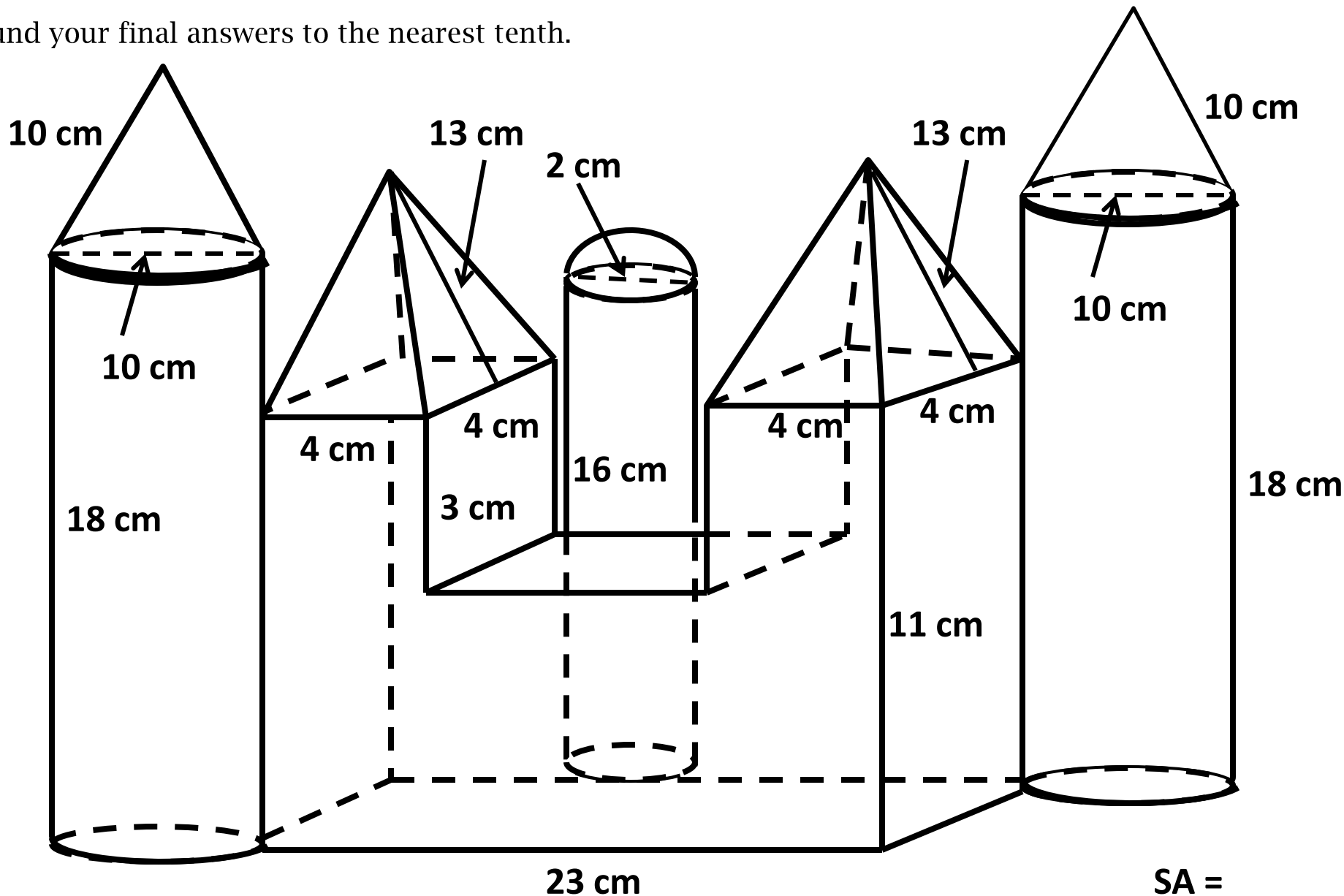
#2 and 1:
 $Sa = (3.14)(5)(10) =$
 $V = (1/3)(3.14)(5^2)(8.7)$



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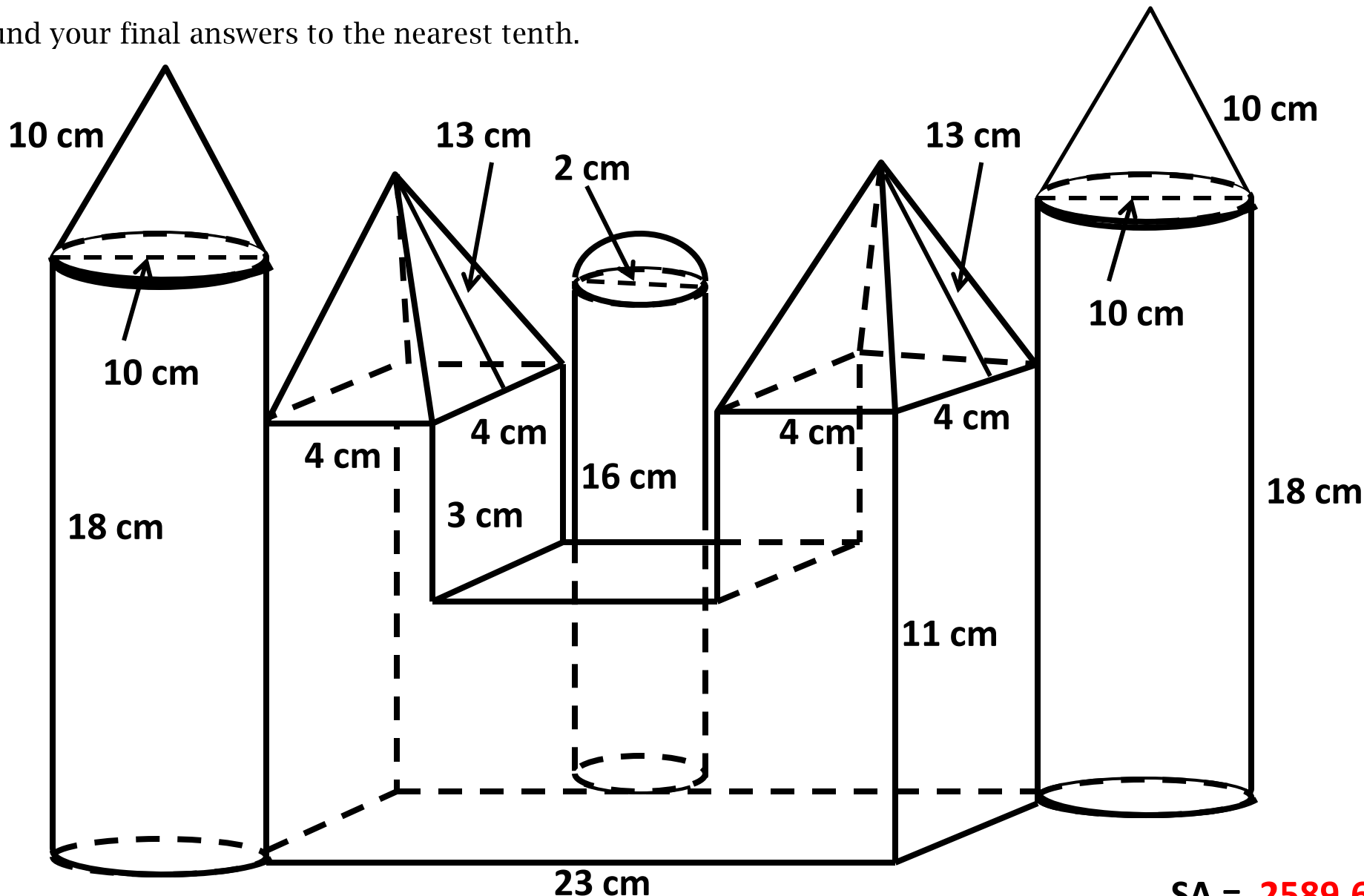
SA = _____

V = _____

Name(s): _____

Surface Area and Volume of a Castle

Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.



$$Sa = (2)(643.7) + (2)(157) + (2)(104) + (2)(160) + 360 + 153.9 + 6.3 = 2649.6 \text{ cm}^2$$

$$V = (2)(1413) + (2)(227.7) + (2)(68.3) + (2)(176) + 480 + 75.4 + 2.1 = 4327.5 \text{ cm}^3$$

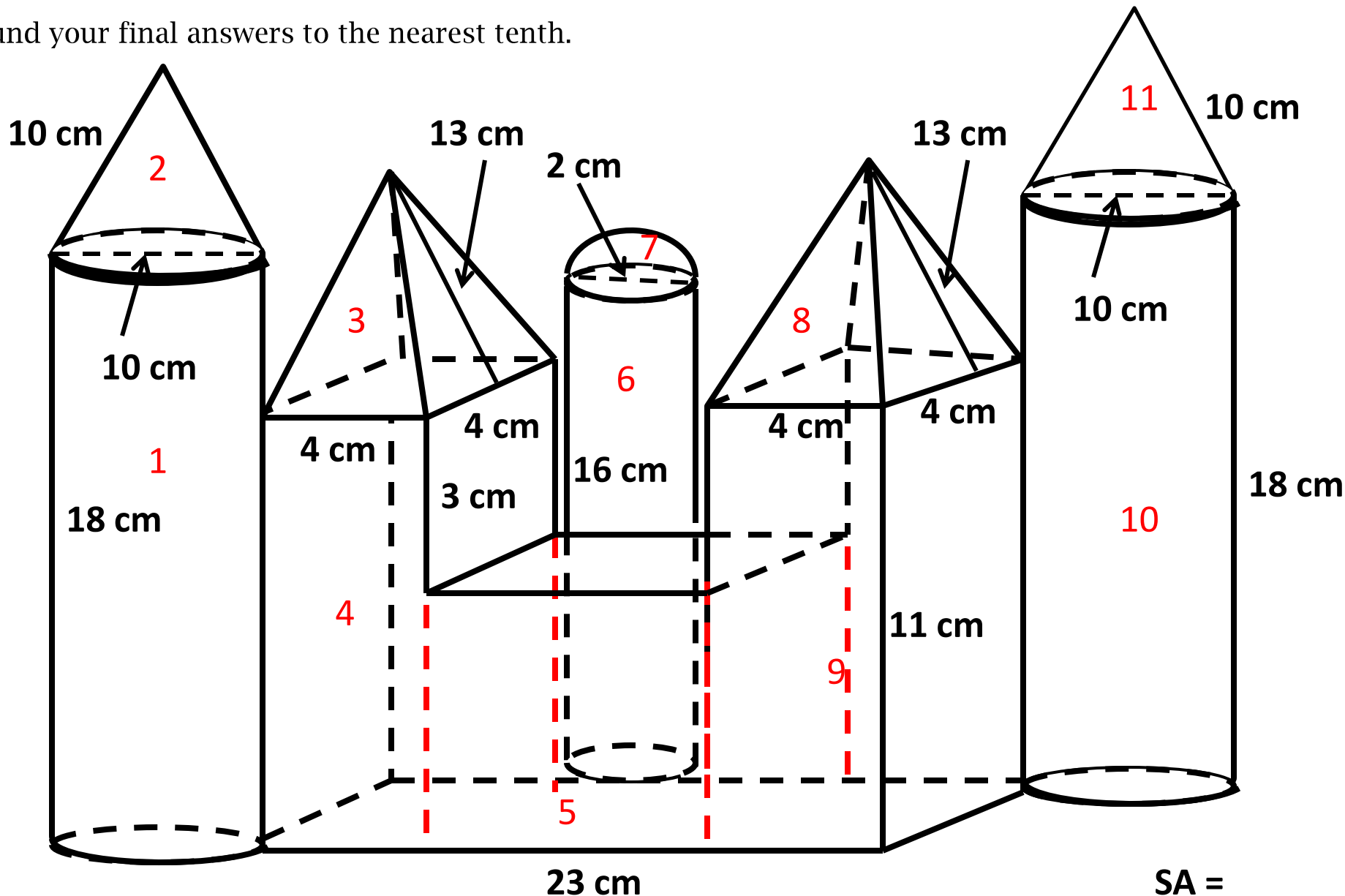
SA = 2589.6 cm²

V = 4327.5 cm³

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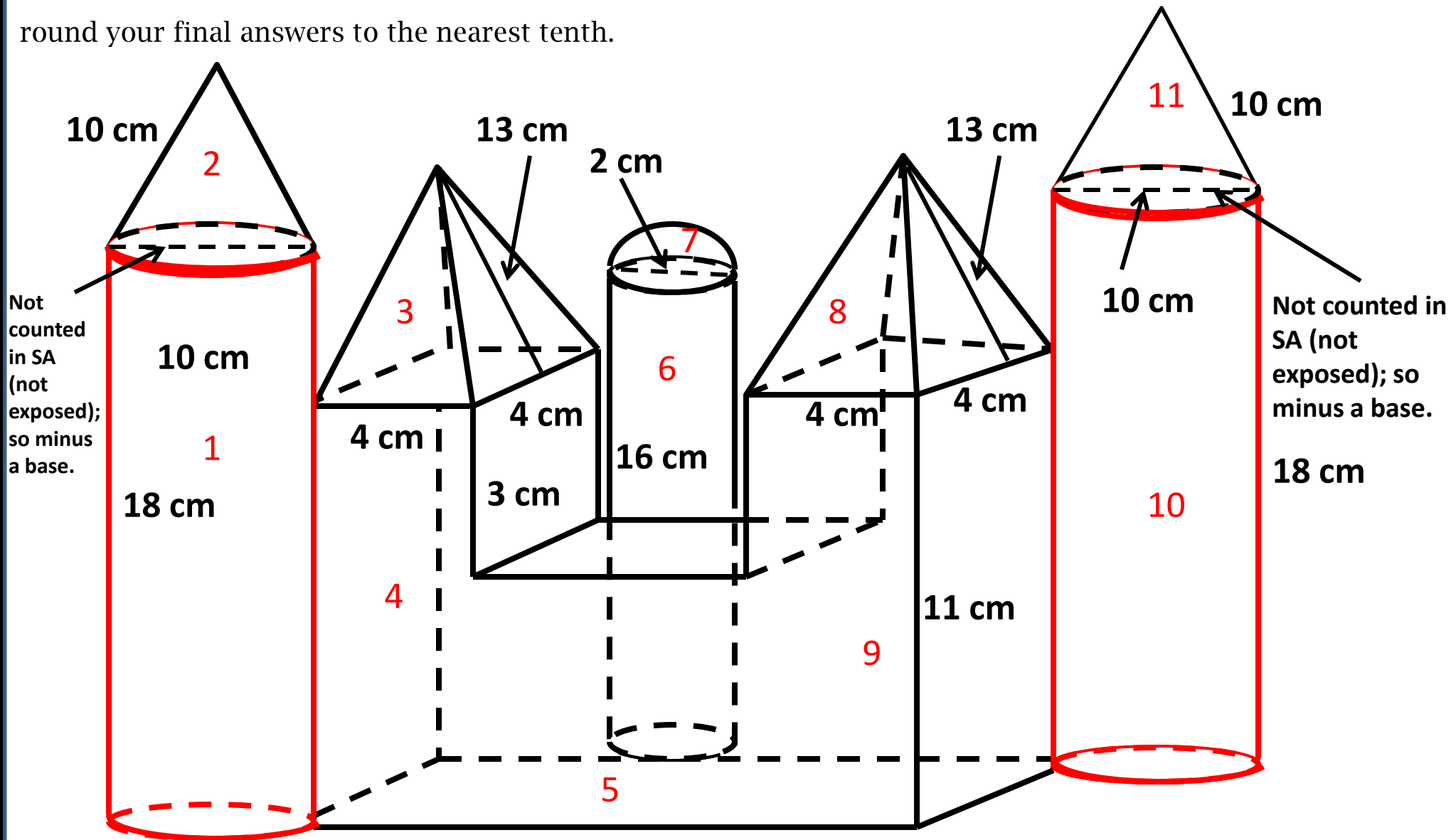


SA = _____
V = _____

Name(s): _____

Surface Area and Volume of a Castle

Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.



Not counted in SA (not exposed); so minus a base.

Not counted in SA (not exposed); so minus a base.

#1 and 10: **23 cm**

$$Sa = 2(3.14)(5)(18) + (3.14)(5^2) = 643.7 \text{ cm}^2 \text{ each}$$

$$V = (3.14)(5^2)(18) = 1413 \text{ cm}^3 \text{ each}$$

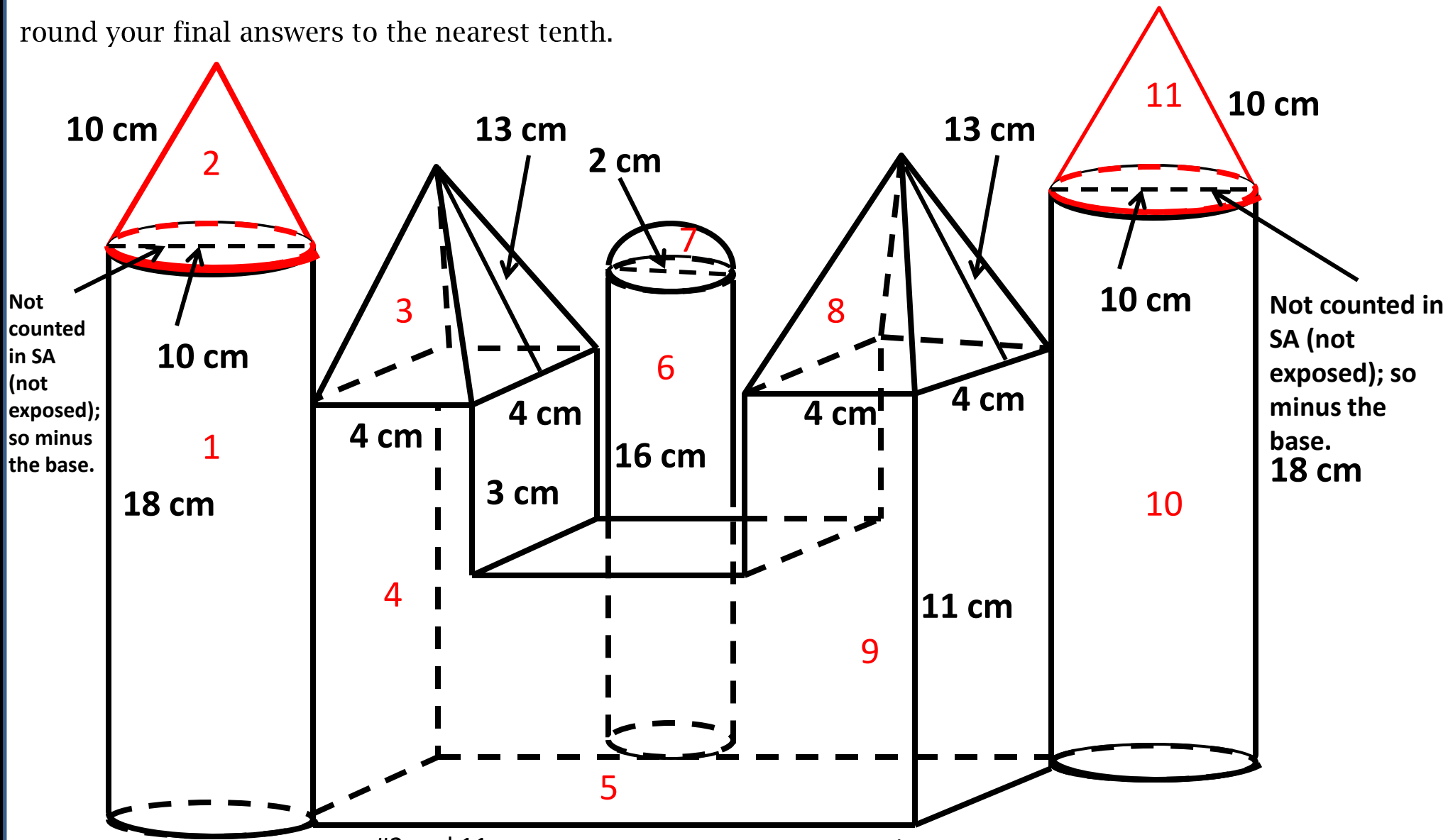
SA = _____

V = _____

Name(s): _____

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Not counted in SA (not exposed); so minus the base.

Not counted in SA (not exposed); so minus the base.

#2 and 11:
 $h = \sqrt{10^2 - 5^2} = 8.7$

23 cm

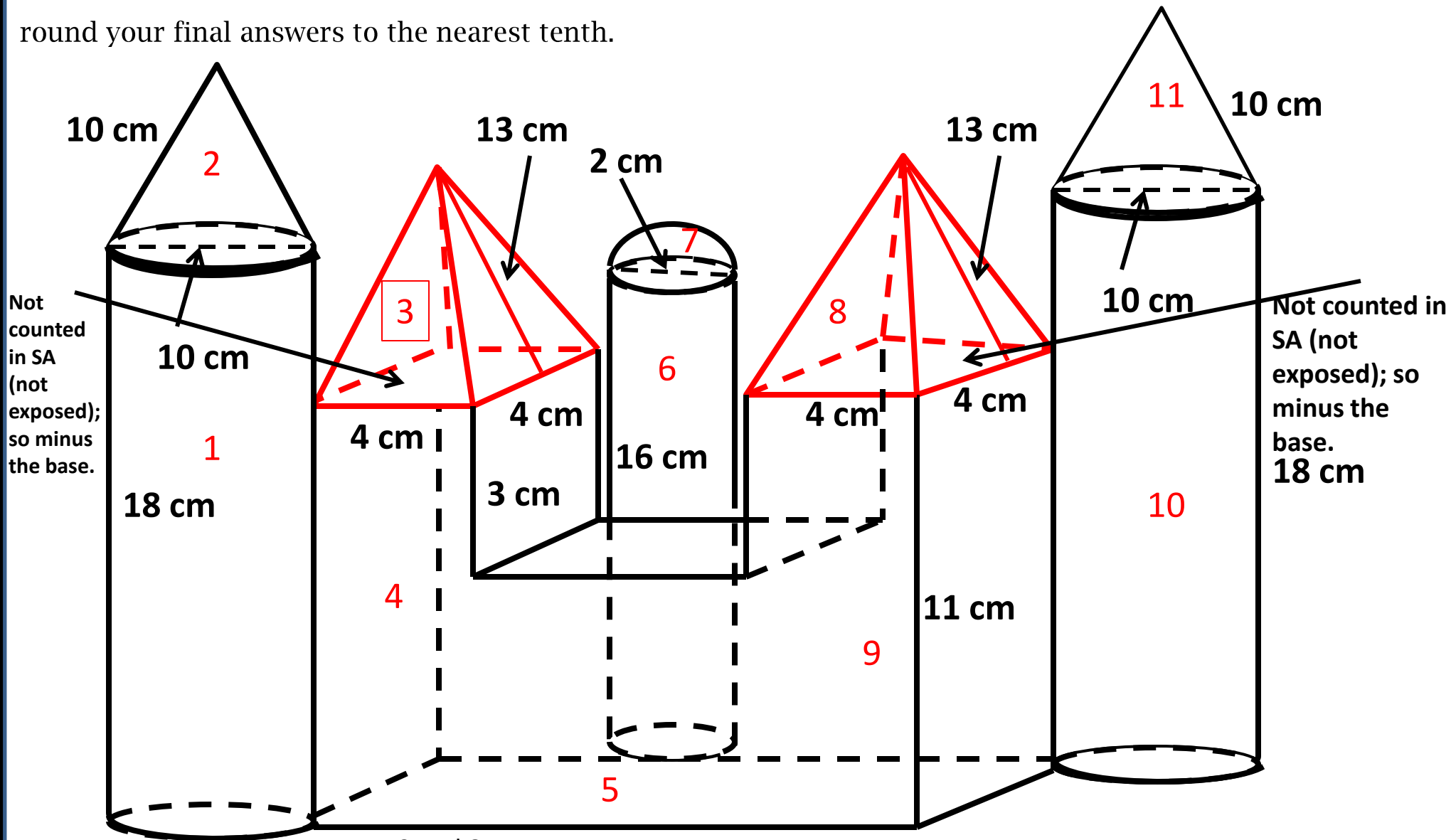
#2 and 11:
 $Sa = (3.14)(5)(10) = 157 \text{ cm}^2$ each
 $V = (1/3)(3.14)(5^2)(8.7) = 227.7 \text{ cm}^3$ each

SA = _____
 V = _____

Name(s): _____

Surface Area and Volume of a Castle

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#3 and 8:
 $h = \sqrt{13^2 - 4^2} = 12.8$

23 cm

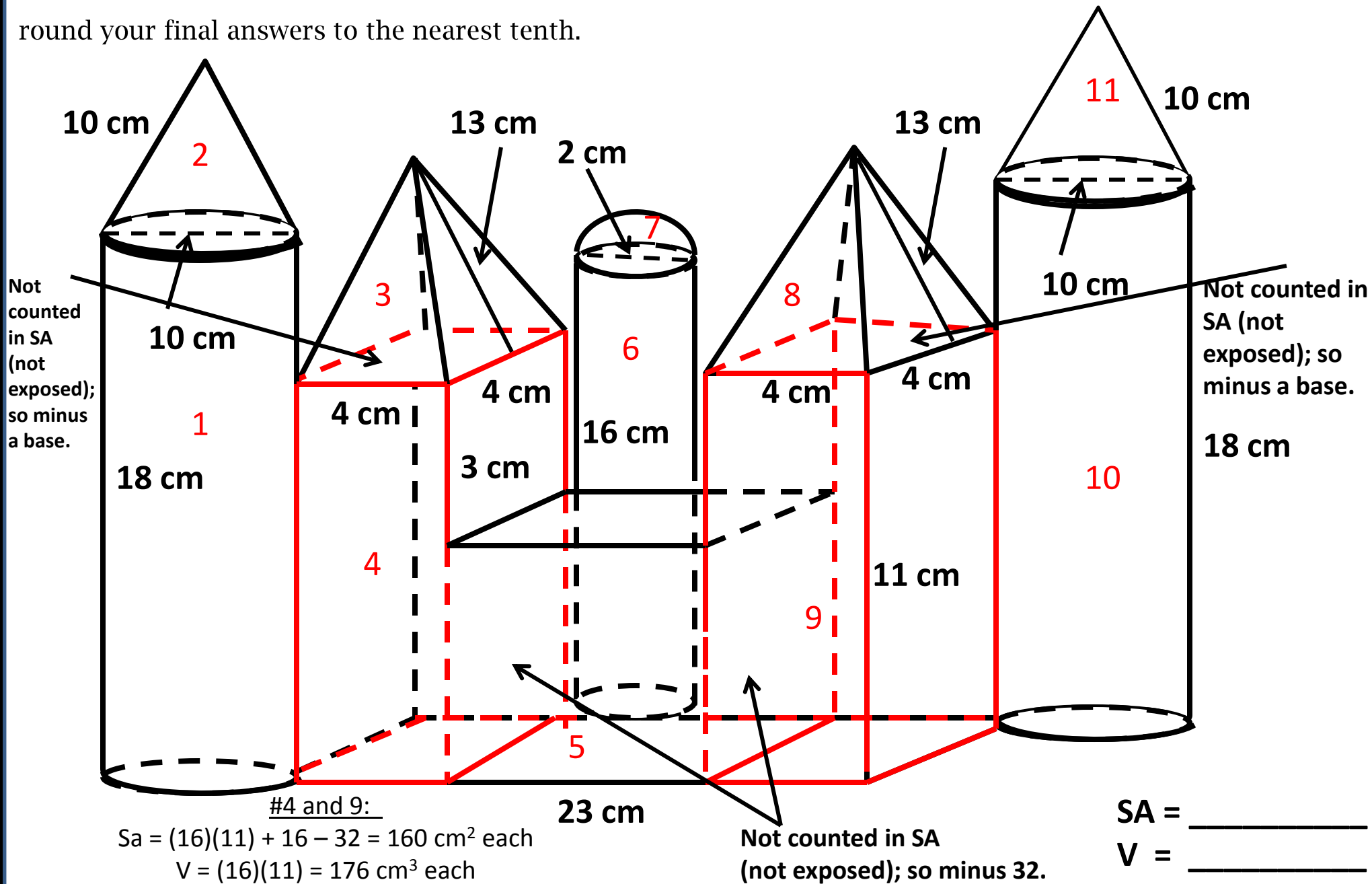
#3 and 8:
 $Sa = (1/2)(16)(13) = 104 \text{ cm}^2$ each
 $V = (1/3)(16)(12.8) = 68.3 \text{ cm}^3$ each

SA = _____
 V = _____

Name(s): _____

Surface Area and Volume of a Castle

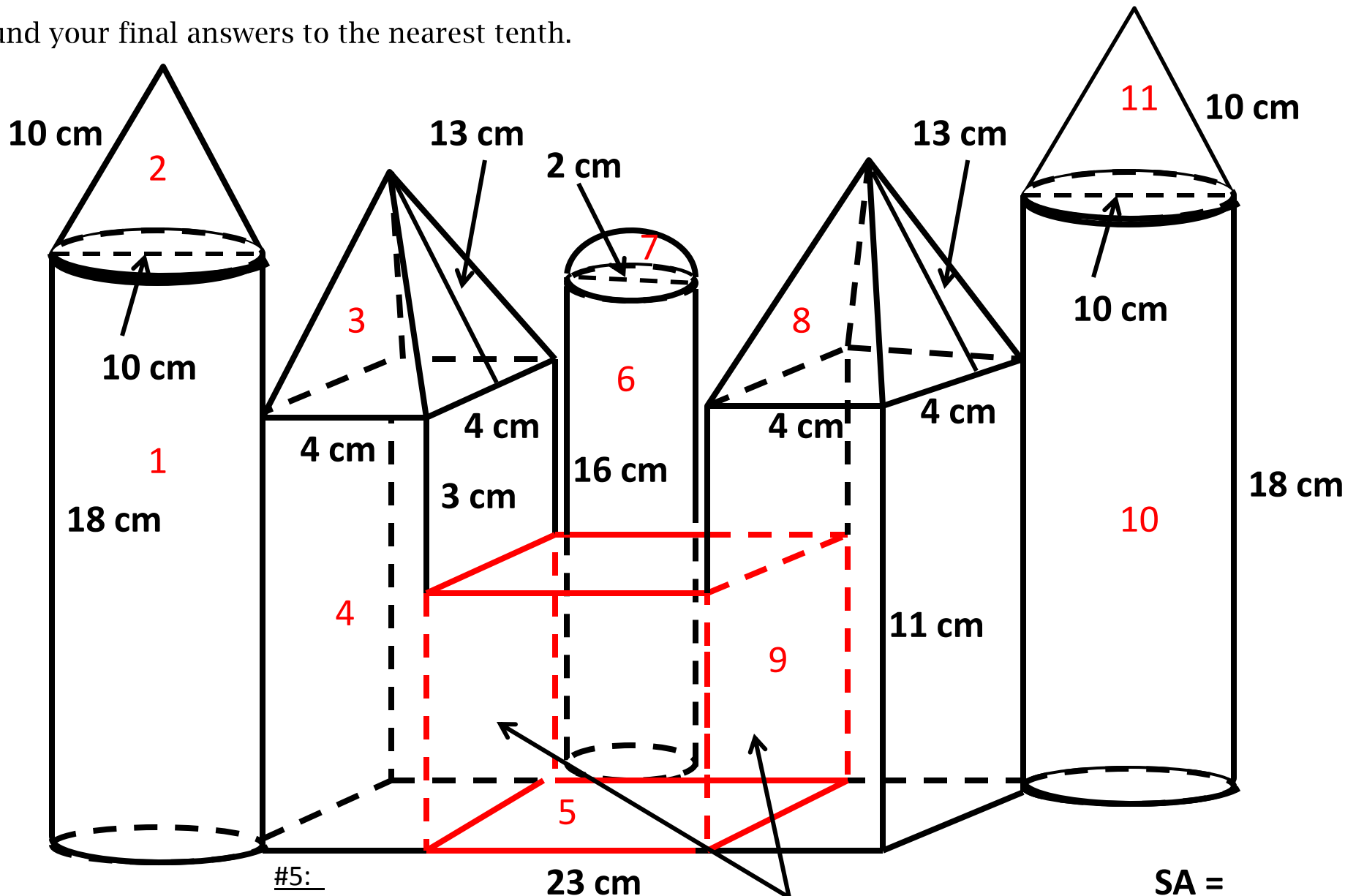
Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.



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Surface Area and Volume of a Castle

Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.



#5:
 $Sa = (2)(4)(15) + (2)(8)(15) = 360 \text{ cm}^2$
 $V = (15)(4)(8) = 480 \text{ cm}^3$

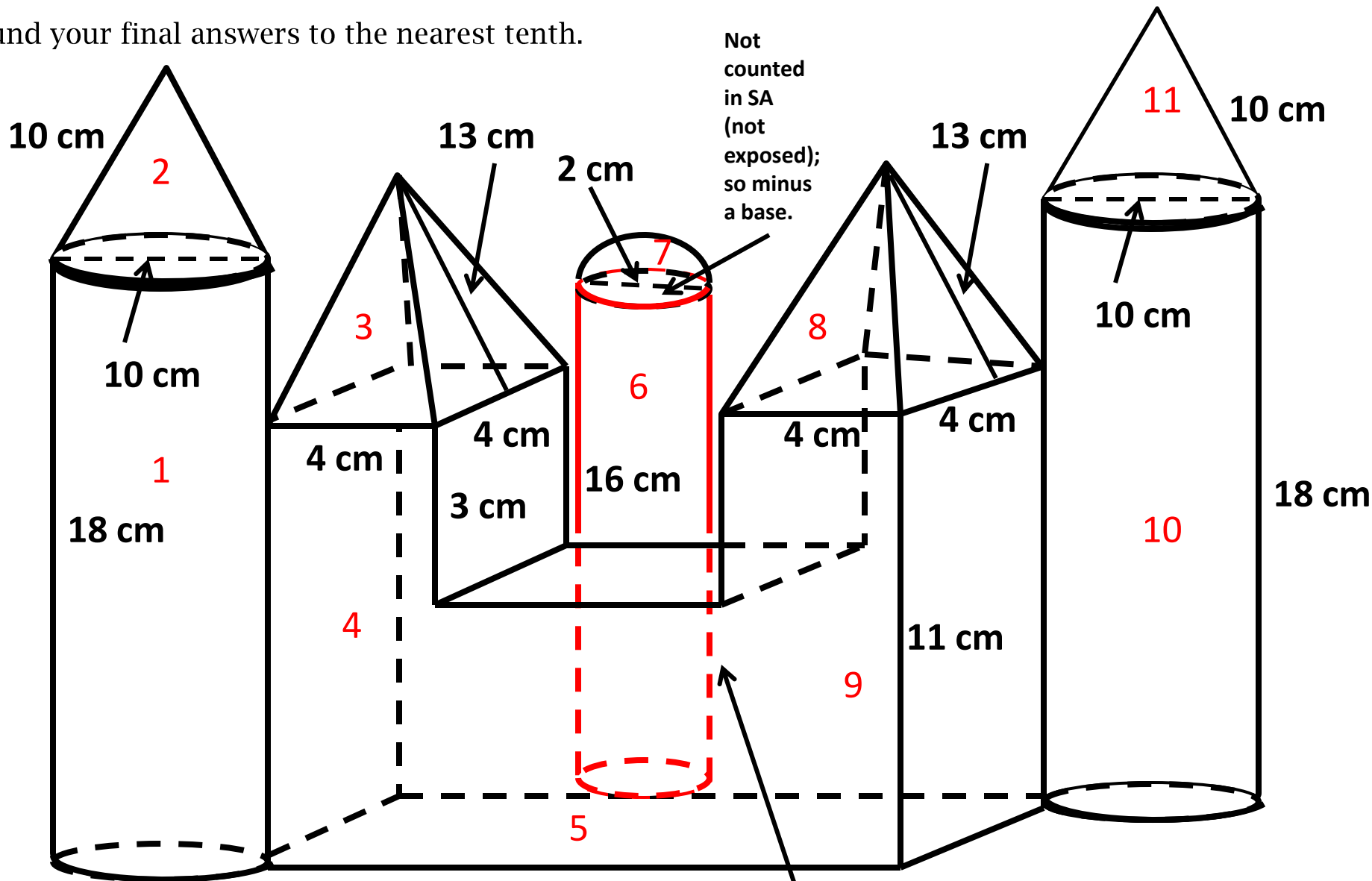
Not counted in SA
(not exposed).

SA = _____
 V = _____

Name(s): _____

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#6:
 $Sa = (2)(3.14)(24) + (3.14)(1^2) = 153.9 \text{ cm}^2$
 $V = (3.14)(1^2)(24) = 75.4 \text{ cm}^3$

23 cm

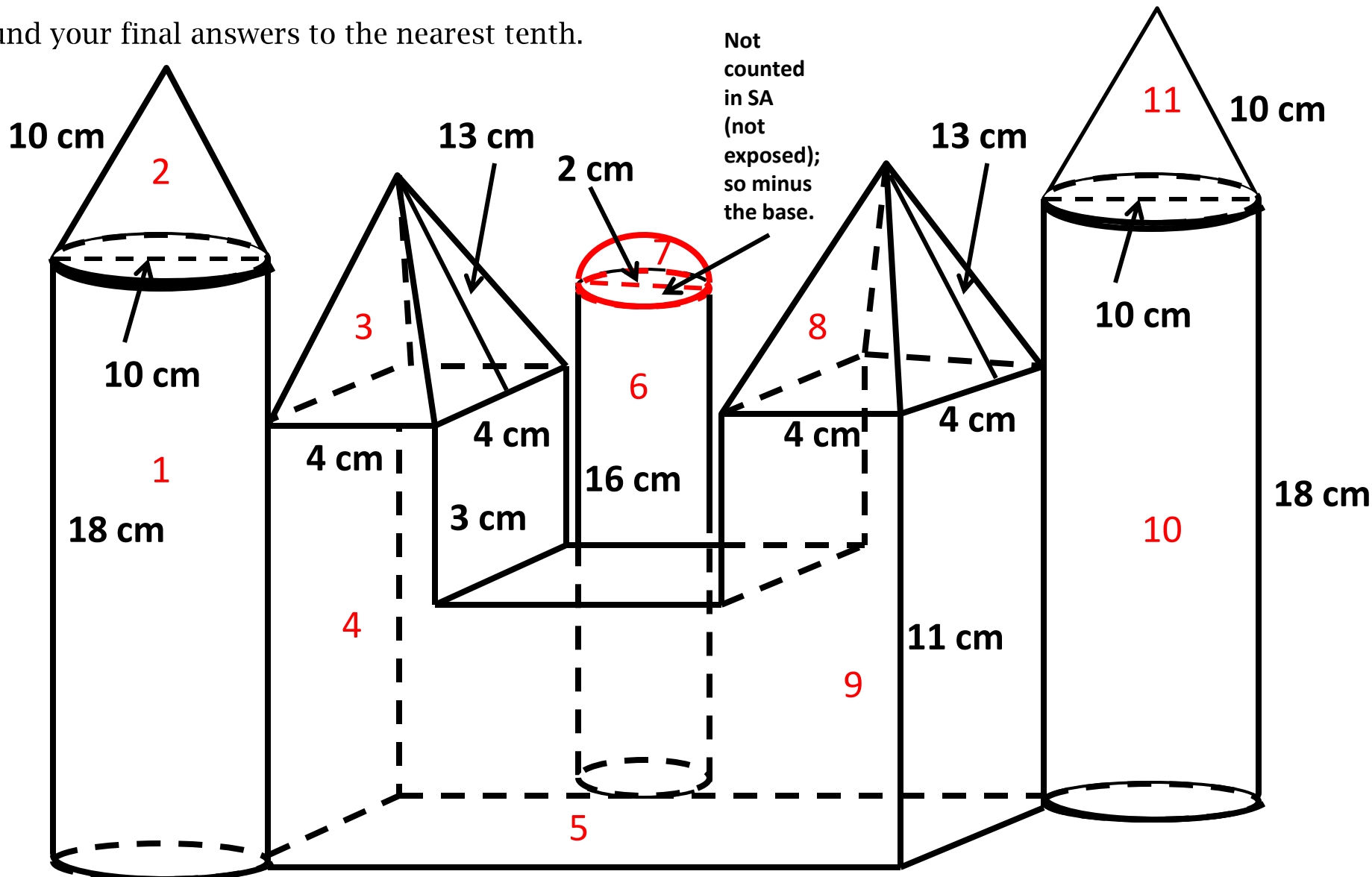
Behind the prism, but still adds to height, therefore add 8 to 16 for h.

SA = _____
 V = _____

Name(s): _____

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Directions: Find the surface area and volume of the figure below. Show all of your work, use 3.14 for π and round your final answers to the nearest tenth.



#7: 23 cm

$$Sa = (2)(3.14)(1^2) = 6.3 \text{ cm}^2$$

$$V = (2/3)(3.14)(1^3) = 2.1 \text{ cm}^3$$

SA = _____
V = _____

Thank You For Your Purchase!

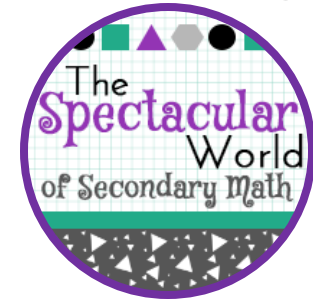
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