

Name:

RACES Rubric

	5 pts	2.5 pts	0 pts
<u>R</u>	Restated the question completely.	Attempted to restate the question but was unsuccessful.	Did not attempt to restate the question.
<u>A</u>	Considered all parts of the question and answered each part accurately.	Missed part of the question OR didn't consider all parts of question OR attempted to answer but did not answer correctly.	Did not attempt to answer the question at all.
<u>C</u>	Properly cited adequate evidence from the text that supported the answer.	Evidence used either did not support the answer or was not correctly used.	Did not attempt to cite text evidence.
<u>E</u>	10pts Made a connection with the text and clearly explained how it supported your answer.	5pts Attempted to make a connection to the text and answer but was unable to explain its relationship clearly.	0pts Did not attempt to explain OR made no clear connection.
<u>S</u>	Summarized response by clearly restating question and answer.	Attempted to summarize but did not restate question or answer.	Did not attempt to summarize.
<u>SENTENCES STARTERS</u>	Properly used a Sentence Starter for each RA, C, E, S sentence.	Attempted to use sentences starters for most sentences in response.	Used only one sentence starter OR Did not attempt to use many.
<u>Underlined RACES</u>	Underlined all of RACES correctly	Underlined some of RACES correctly	Didn't Underline
<u>Mechanics</u>	Few spelling and grammar errors; correct punctuation; complete sentences	Some spelling and grammar errors; most sentences have punctuation and are complete; uses upper- and lowercase	Many spelling, grammar, and punctuation errors; sentence fragments; incorrect use of capitalization

Total: _____ / 45 points

AREA OF TRIANGLES

To find the area of any triangle, simply multiply the base and the height of the triangle together. Take the resulting product and divide by two.

We can use the following formula to calculate the area of any triangle.

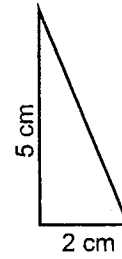
$$\text{Area} = \frac{b \cdot h}{2}$$

Example: $\text{Area} = \frac{b \cdot h}{2}$

$$\text{Area} = \frac{2 \cdot 5}{2}$$

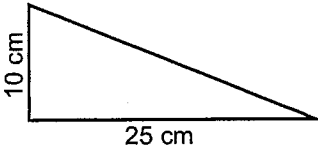
$$\text{Area} = \frac{10}{2}$$

$$\text{Area} = 5 \text{ cm}^2$$

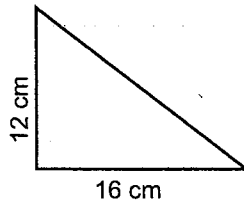


Directions: Find the area of each of the following triangles. Show your work like the example given above.

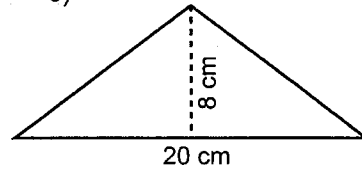
1)



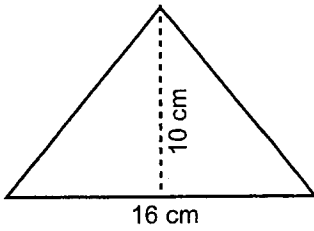
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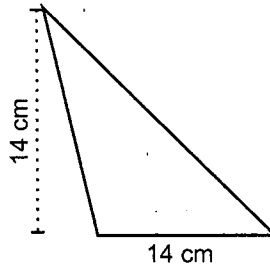
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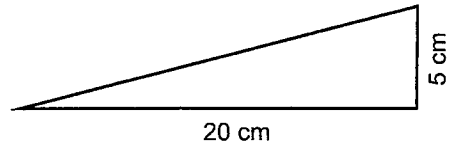
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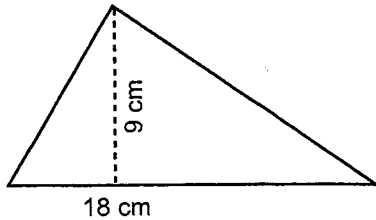
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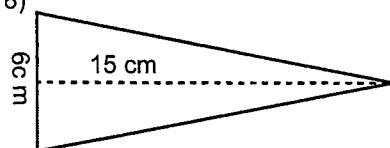
6)



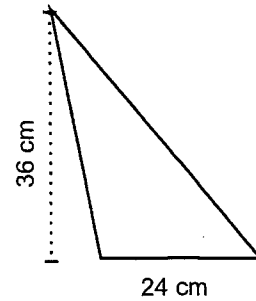
7)



8)



9)



Area Of Trapezoids

Area Of A Trapezoid
Formula

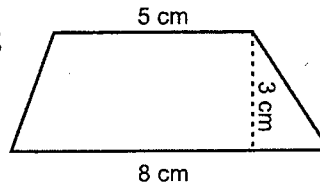
$$\frac{(b_1 + b_2) \cdot h}{2}$$

b_1 = Length Of Bottom Base

b_2 = Length Of Top Base

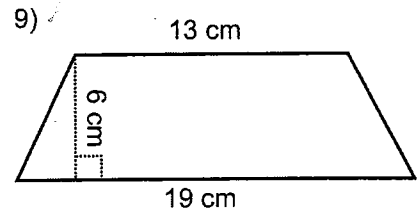
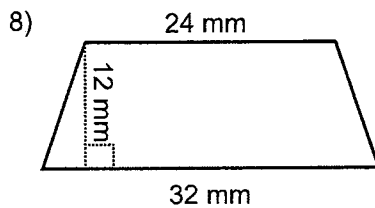
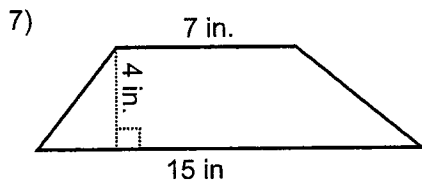
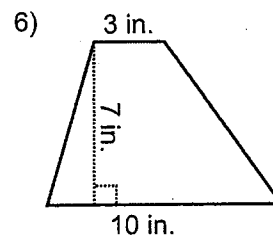
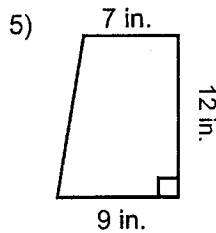
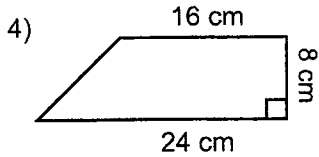
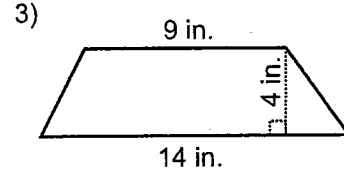
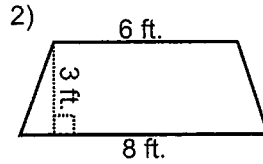
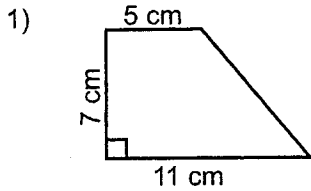
h = Height Of Trapezoid

Example;



$$\frac{(b_1 + b_2) \cdot h}{2} = \frac{(8 + 5) \cdot 3}{2} = \frac{(13) \cdot 3}{2} = \frac{39}{2} = 19.5 \text{ cm}^2$$

Directions: Find the area of each of the following trapezoids.



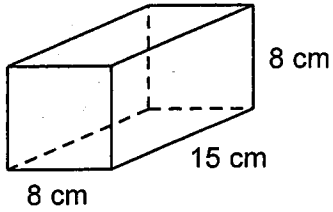
Area of Composite Figures

NAME _____

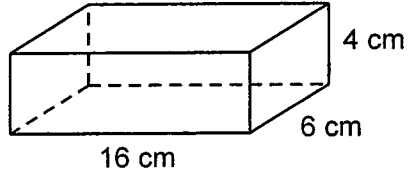
(Drawings are not to scale) (The numbers represent units) (Answers are in square units)

Find the **volume** for problems 1 - 6 and the **surface area** for problems 7 - 12.

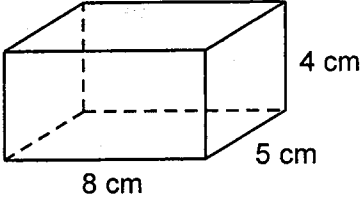
1.



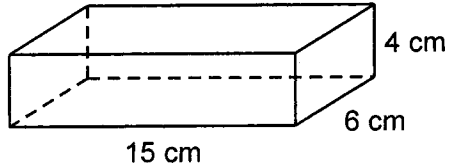
2.



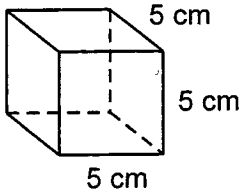
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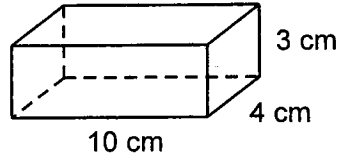
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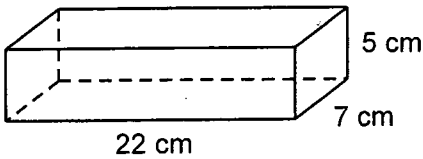
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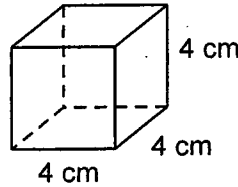
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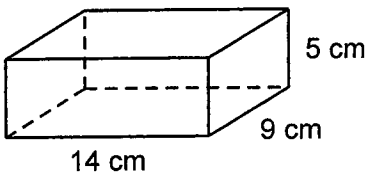
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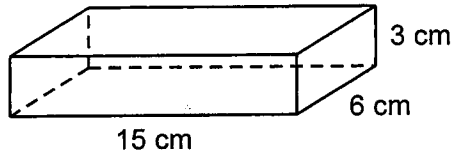
8.



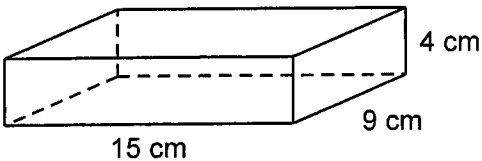
9.



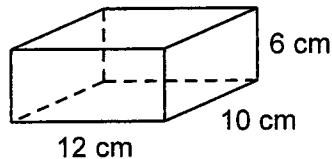
10.



11.



12.



Match the question number with the answer below. Color the picture accordingly.

Purple: 598 cm^2

Green: 504 cm^2

Green: 360 cm^3

Purple: 482 cm^2

Green: 125 cm^3

Blue: 96 cm^2

Orange: 462 cm^2

Orange: 120 cm^3

Yellow: 306 cm^2

Yellow: 160 cm^3

Orange: 960 cm^3

Blue: 384 cm^3

