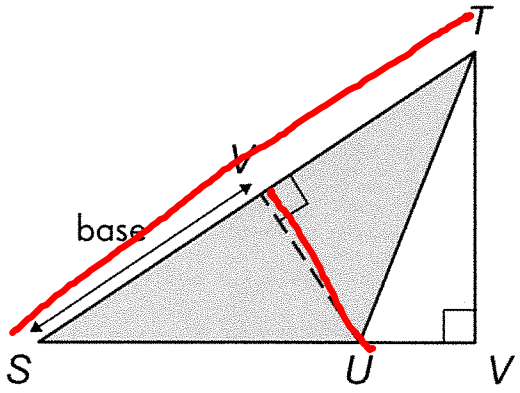
Name: Loz Class: Math Date: 1 - 29 - 2021 ID: A

Chapter 6 Test

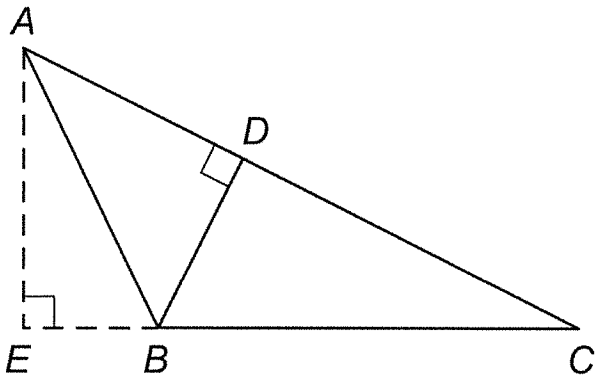
Area

D 1. **Name the height of triangle *STU*.**



A. *UV*
B. *UT*
C. *TW*
D. *US*

C 2. **The height of triangle *ABC* is *BD*. What is the base of the triangle?**



A. *AE*
B. *AB*
C. *AC*
D. *AE*

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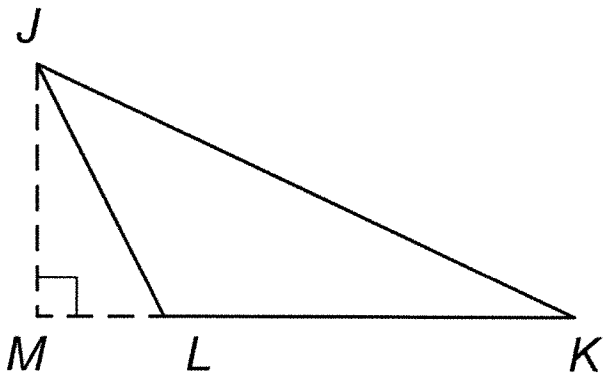
B

3. **John wants to find the area of triangle *JKL* . Which of the following is the correct method to calculate the area of the triangle?**

-2



A. $JK + KL + JL$

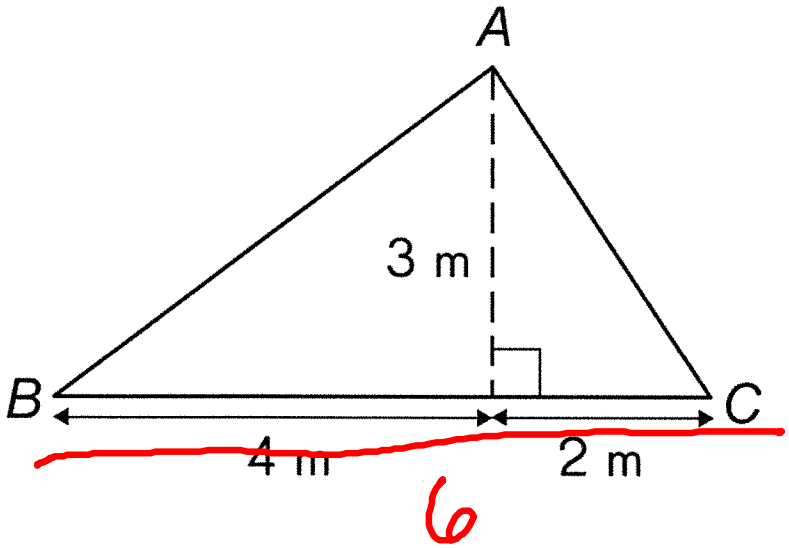
B. $\frac{1}{2} \times KL \times JL$

C. $\frac{KL \times JM}{2}$

D. $JK \times KL \times JL$

4. **Find the area, in square centimeters, of triangle *ABC*.**

-2



6

6 x 3 / 2

4 x 3 = 12 ÷ 2 = 6

6 cm 2

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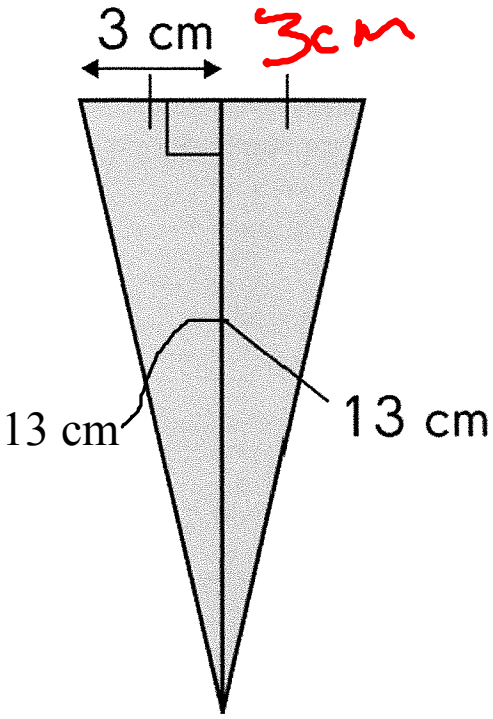
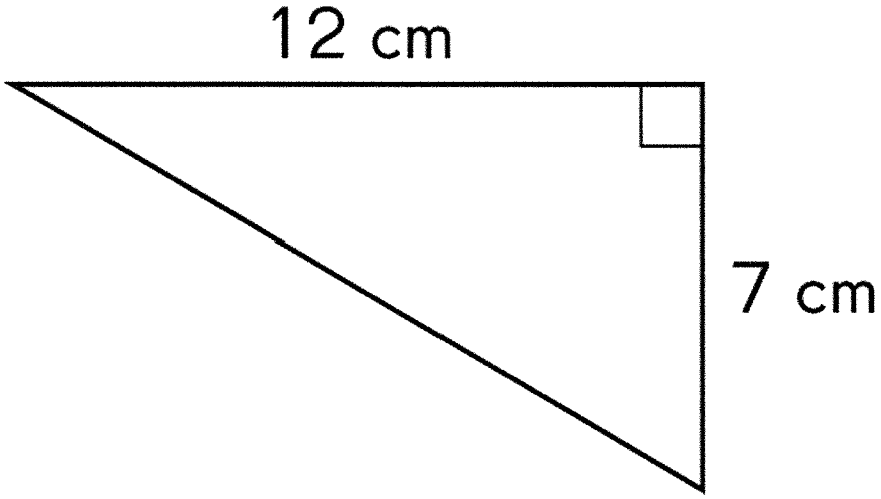
5. **Two identical triangles are joined side by side to form a bigger triangle. What is the area, in square centimeters, of the bigger triangle?**



$\frac{6 \times 13}{2}$

13 x 13 = 169 divided by 2 = 84.5

6. **Find the area, in square centimeters, of the figure.**



12 x 7 = 84 divided by 2 = 42 cm^2

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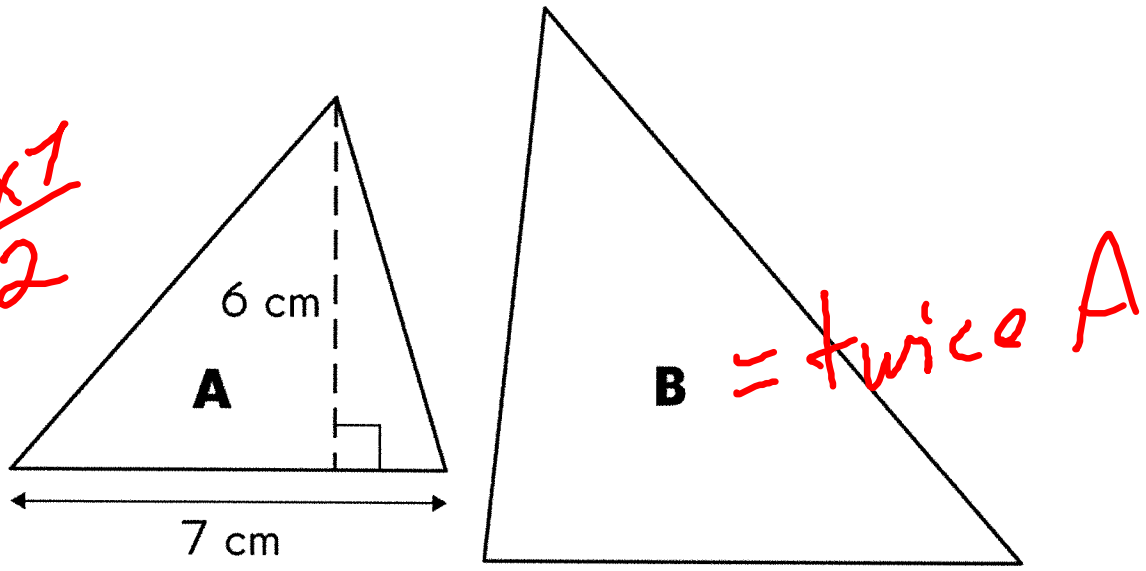
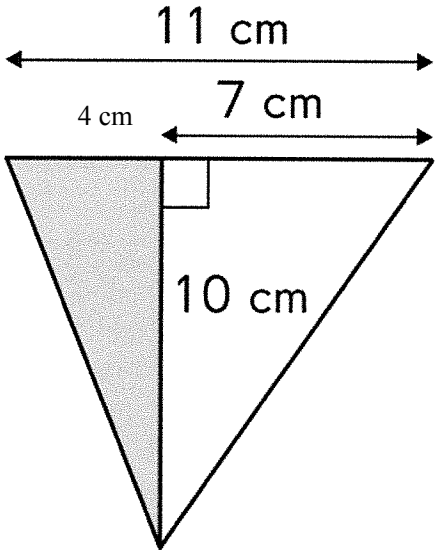
7. **The area of triangle B is twice the area of triangle A. Find the area, in square centimeters, of triangle B.**



6 x 7 / 2

B = twice A

B 8. **Find the area of the shaded triangle.**



10 x 4 = 40 divided by 2 = 20

A. 15 cm²
B. 20 cm²
C. 22 cm²
D. 35 cm²

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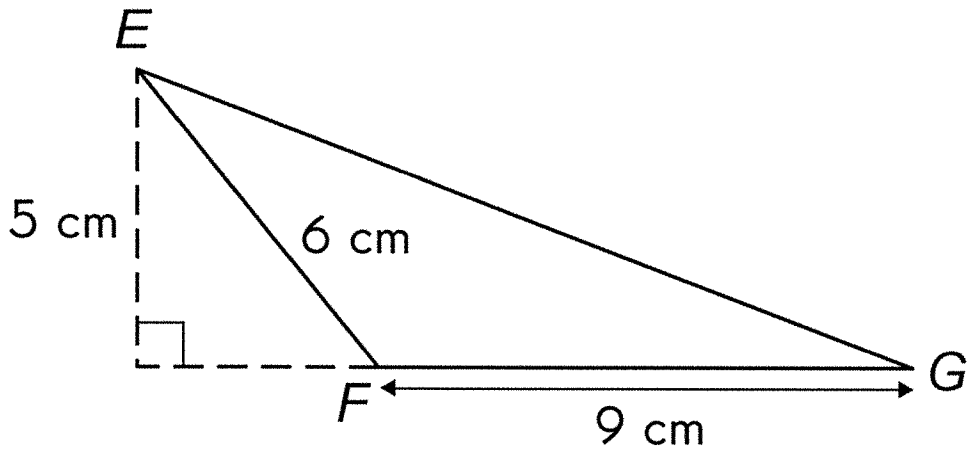
D 9. **Find the area of a triangle with a base of 7 centimeters and height of 7 centimeters.**

A. 14 square centimeters
B. 49 square centimeters
C. 21.5 square centimeters 7 x 7 = 49 divided by 2 = 24.5
D. 24.5 square centimeters

C 10. **The perimeter of triangle *EFG* is 28 centimeters. What is the area, in square centimeters, of triangle *EFG*?**



A. 27 square centimeters
B. 39 square centimeters 9 x 6 45 divided by 2 = 22.5 cm
C. 22.5 square centimeters
D. 32.5 square centimeters

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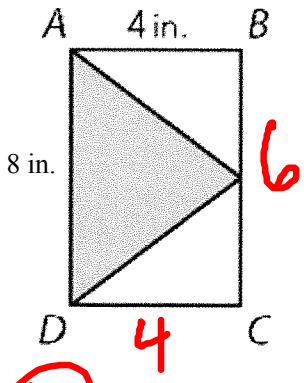
B 11. **Rectangle ABCD has a perimeter of 20 inches. What is the area of the shaded triangle?**



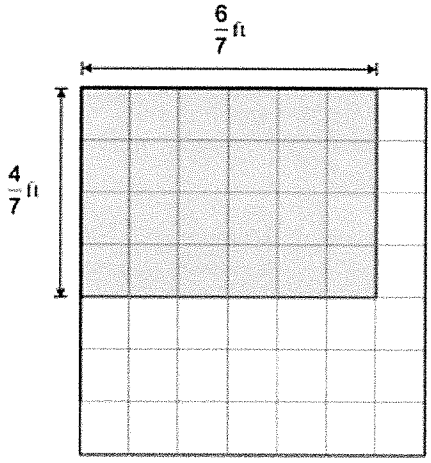
Extra Credit

6 6 4

8 x 4 = 32 divided by 2 = 16

A. 12 square inches
B. 16 square inches
C. 24 square inches
D. 48 square inches

B 12. **Find the area of the figure.**



6/7 x 4/7 = 24/49

A. $\frac{10}{49}$ ft^2
B. $\frac{24}{49}$ ft^2
C. $\frac{10}{14}$ ft^2
D. $\frac{2}{7}$ ft^2