Chapter 6 Test

Area

___D___ 1. **Name the height of triangle *STU*.**
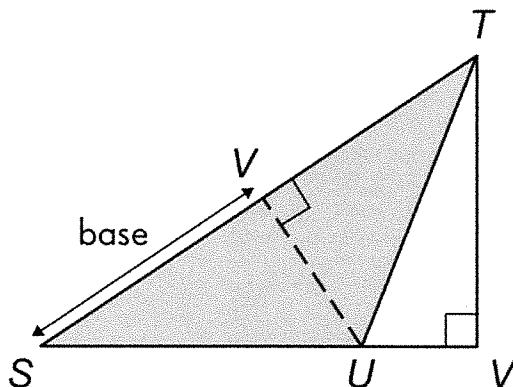
    A. *UV*
    B. *UT*
    C. *TW*
    D. *US*

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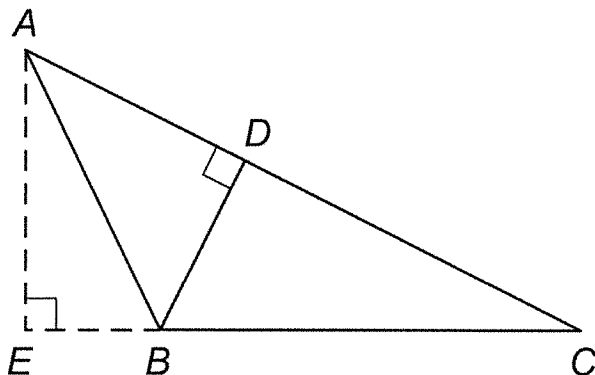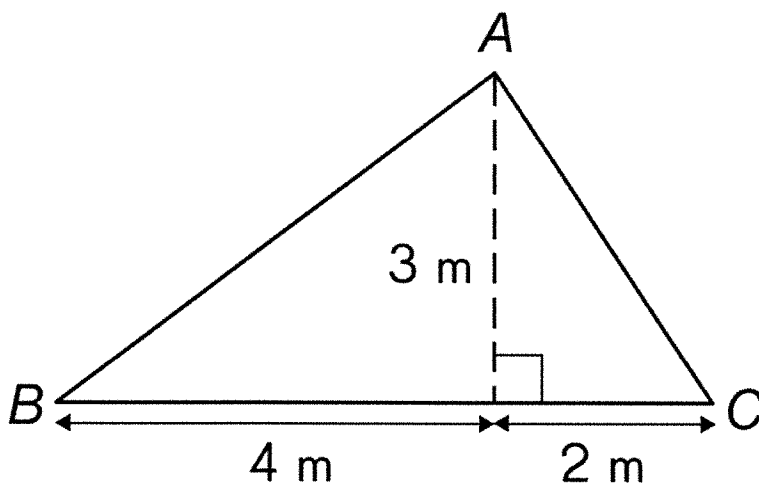

    A. *AE*
    B. *AB*
    C. *AC*
    D. *AE*

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?
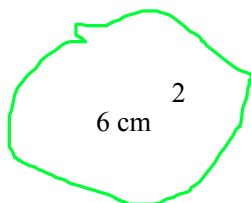
J

M   L   K
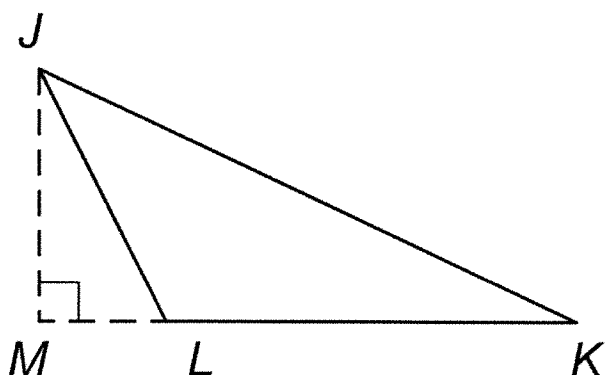
A. *JK + KL + JL*

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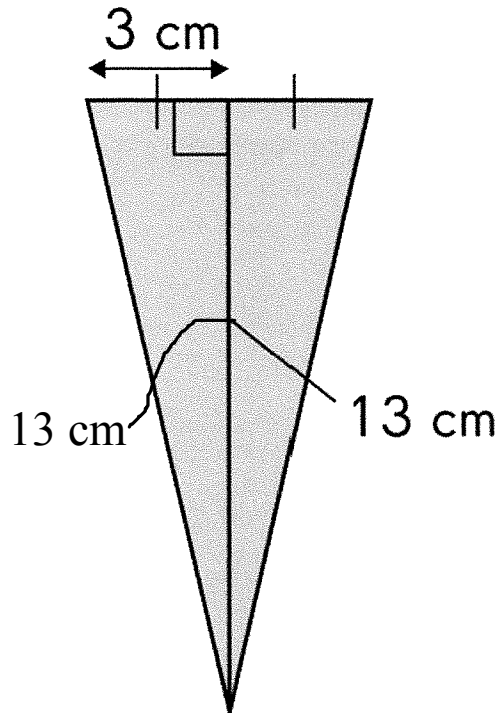
C. $\frac{KL \times JM}{2}$

D. *JK × KL × JL*

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

A

3 m

B

4 m   2 m
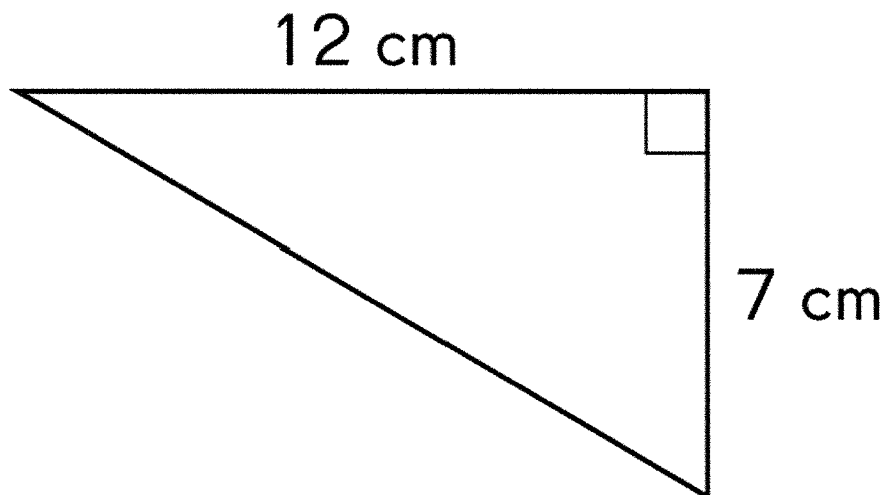
C

4 x 3 = 12 ÷ 2 = 6

6 cm²

2

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?**
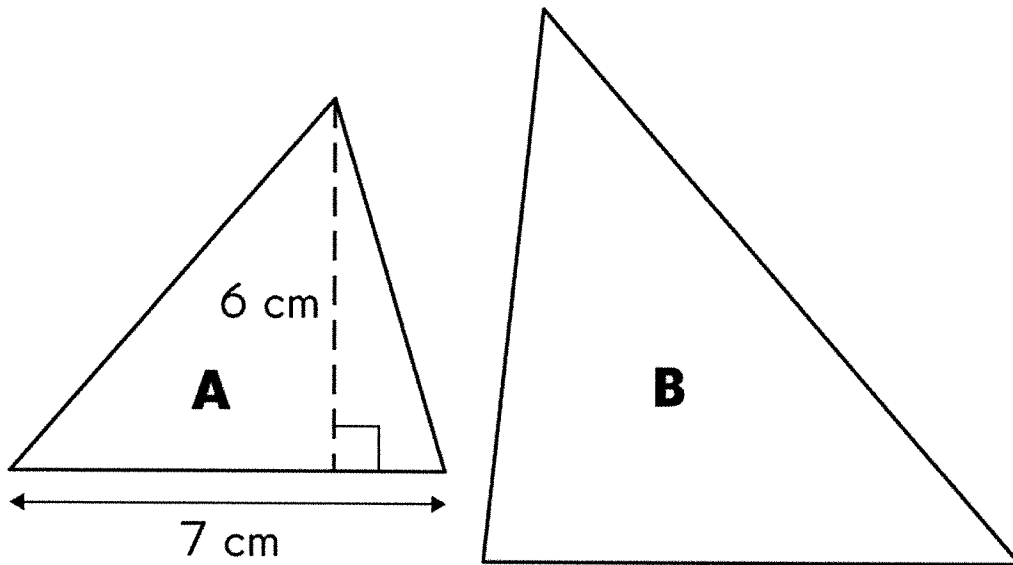
3 cm

13 cm   13 cm

13 x 13 = 169 divided by 2 = 84.5

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

12 cm

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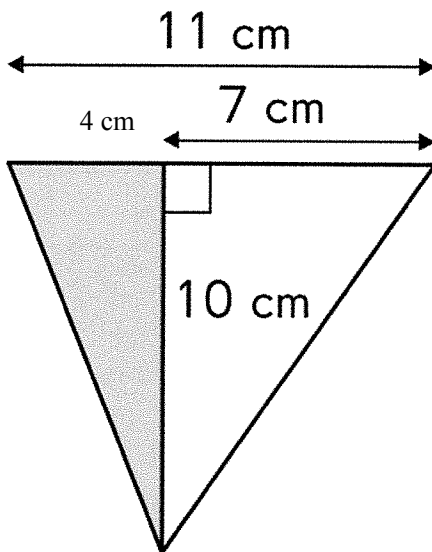
12 x 7 = 84 divided by 2 = 42 cm^2

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

6 cm

A

7 cm

B

_B_ _____

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

11 cm

7 cm

4 cm

10 cm

10 x 4 = 40 divided by 2 = 20
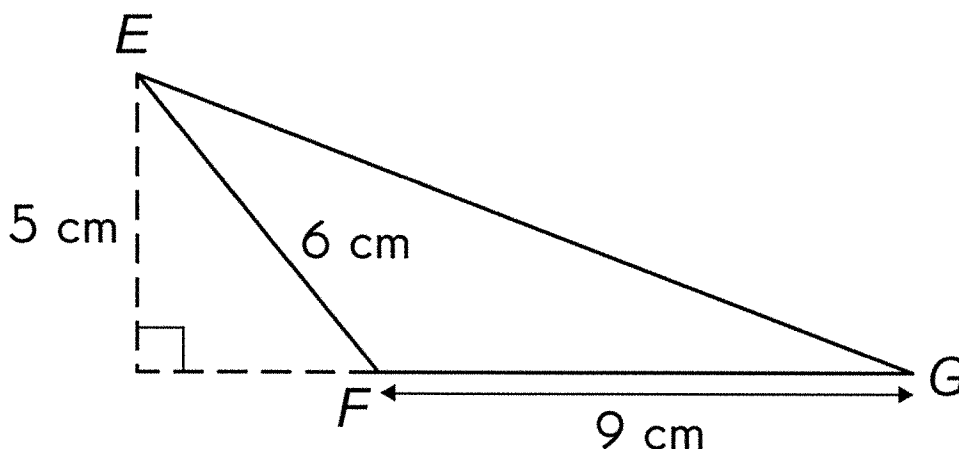
A. 15 cm^2
B. 20 cm^2
C. 22 cm^2
D. 35 cm^2

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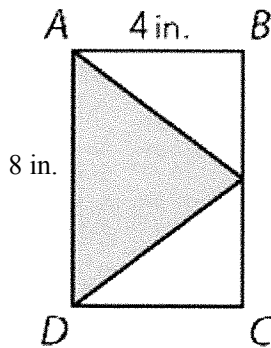   B. 39 square centimeters   9 x 6 45 divided by 2 = 22.5 cm
    C. 22.5 square centimeters
    D. 32.5 square centimeters

B

11. **Rectangle ABCD has a perimeter of 20 inches. What is the area of the shaded triangle?**
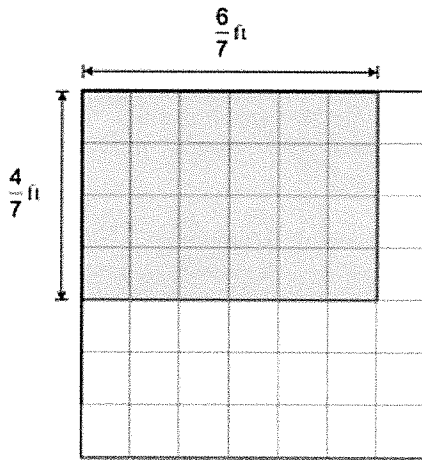
A   4 in.   B

8 in.

D   C

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.**

$\frac{6}{7}$ ft

$\frac{4}{7}$ ft

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