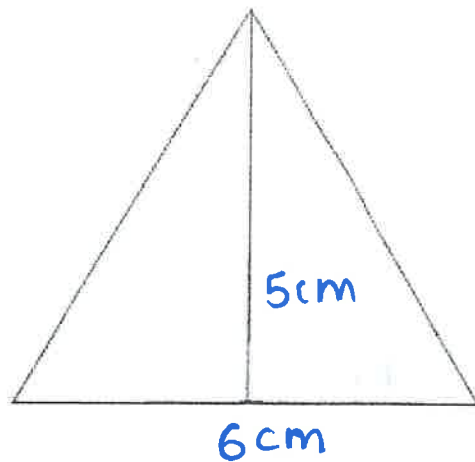


- 1) Mrs. Dona created a flower bed in a shape of a triangle in her back yard. Use the ruler and measure the dimensions to the nearest centimeters.



Which measurement is closest to the area of the flower bed in square centimeters?

A 20 cm^2

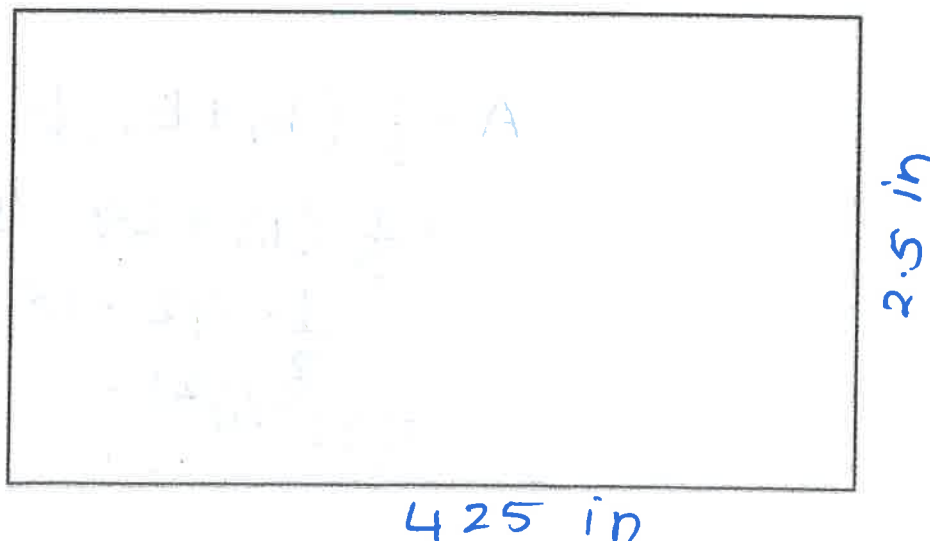
B 9 cm^2

C 10 cm^2

D 15 cm^2

$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2}6 \cdot 5 \\ &= 15 \text{ cm}^2 \end{aligned}$$

- 2) A rectangle base of a box is shown. Use the ruler and measure the length and width of the rectangle base to the nearest $\frac{1}{4}$ inch.



The height of box is 11 ^{Inches} ~~centimeters~~. What is volume of the rectangular prism?

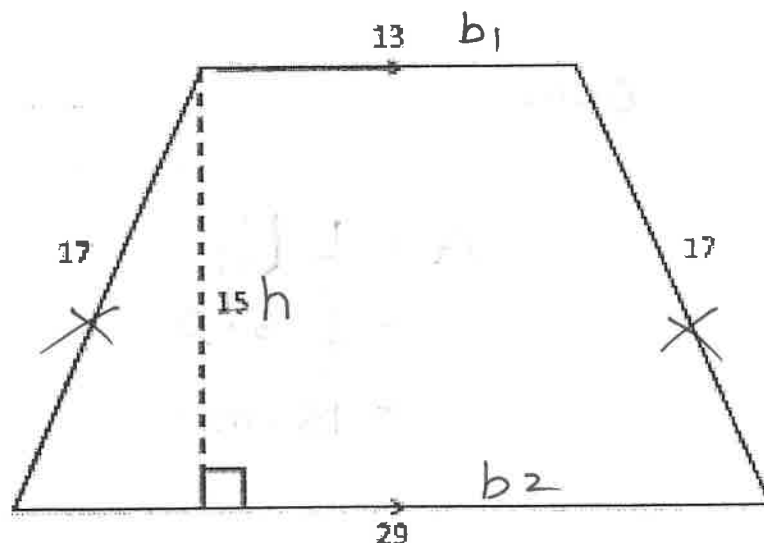
A 11 ~~cm~~ ⁱⁿ ³

B 70 ~~cm~~ ⁱⁿ ³

C 15.5 ~~cm~~ ⁱⁿ ³

D 117 ~~cm~~ ⁱⁿ ³

3. A table top in a science lab is shaped like a trapezoid. The dimensions of the table are shown below.



What is the area of the area of the table top in square inches?

A 29.5 in^2

B 315 in^2

C 357 in^2

D 28.5 in^2

$$\begin{aligned}
 A &= \frac{1}{2} (b_1 + b_2) h \\
 &= \frac{1}{2} (13 + 29) 15 \\
 &= \frac{1 \cdot 42 \cdot 15}{2} \\
 &= \boxed{315 \text{ in}^2}
 \end{aligned}$$

4.

Jimmy runs the 200-meter dash in 21.3 seconds. How many kilometers are in 200 meters?

- F 2,000 km
- G 20,000 km
- H 20 km
- ☒ J 0.2 km

$$\frac{200}{1000}$$

$$1 \text{ km} = 1000 \text{ m}$$

$$\frac{1}{5} = 5 \overline{) 0.2}$$

5. A rope is 9060 feet long. How long is the rope in yards?

- A 27,180 yd
- B 108,720 yd
- C 4530 yd
- ☒ D 3020 yd

$$3 \text{ feet} = 1 \text{ yard}$$

$$\frac{9060}{3} = 3020 \text{ yd}$$

6. Which set of angle measure **CANNOT** be the angle measures of a triangle?

- A 95°, 50°, 35°
- B 90°, 45°, 45°
- ☒ C 80°, 45°, 63°
- D 100°, 20°, 60°

$$= 180^\circ$$

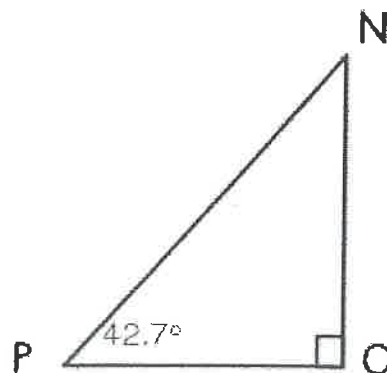
$$= 180^\circ$$

$$= 188^\circ$$

$$= 180^\circ$$

angles Add up to 180°

7. In Triangle NPQ shown below, What is the measure of $\angle N$ in degrees



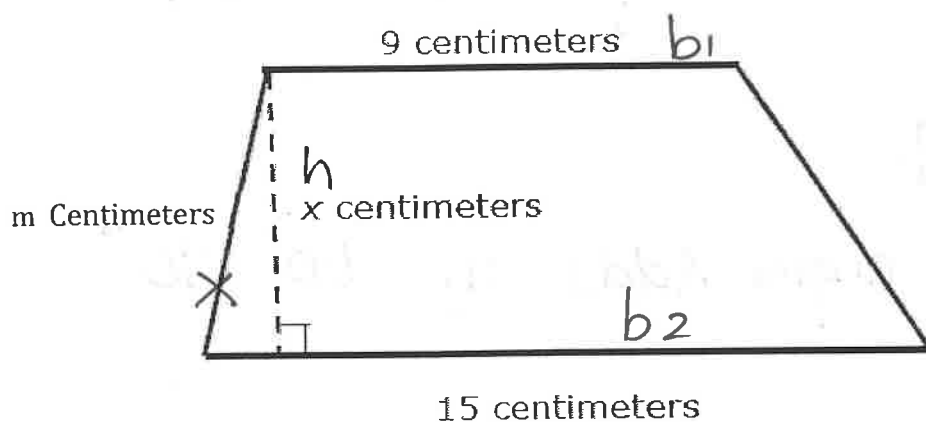
$$\begin{array}{r} 42.7 \\ 90.0 \\ \hline 132.7 \end{array} \downarrow +$$

$$\begin{array}{r} 19 \\ 180.0 \\ - 132.7 \\ \hline 47.3 \end{array}$$

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			4	7	.	3	
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

8. A dimensions of a trapezoid is shown in a diagram. Which equation can be used to find A, the area of the trapezoid in square centimeters?



A $A = \frac{1}{2} (9 + 15) m$

B $A = \frac{1}{2} (9) + (5)x$

☒ C $A = \frac{1}{2} (9 + 15)x$

D $A = \frac{1}{2} (9) + (15)m$

9. The table shows the relationship between the Area of Triangle and Area of Rectangle.

Area of Triangle (T)	Area of Rectangle (R)
2.5	5
3	6
4	8
5.5	11

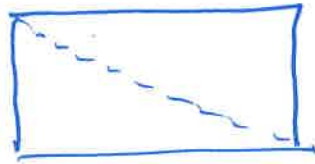
Which equation can be used to find T, the area of a Triangle from R, area of a Rectangle?

A $T = R - 2.5$

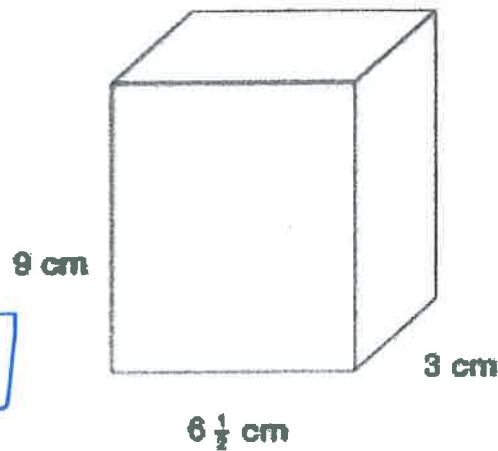
☒ B $T = \frac{R}{2}$

C $T = T + 3$

D $T = R + 4$



10. The figure represents a small container that takes a shape of rectangular prism. The dimensions of the container are given below. The container is filled with sugar. What is the volume of the sugar in the container?



$$\begin{aligned}
 V &= 9 \times 6.5 \times 3 \\
 &= 27 \times 6.5 \\
 V &= 175.5 \text{ cm}^3
 \end{aligned}$$

A 18.5 cm^3

☒ B 175.5 cm^3

C 35.1 cm^3

D 20.9 cm^3

