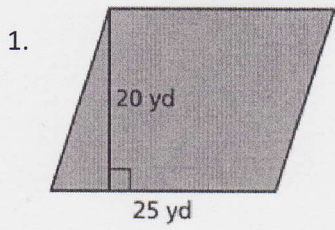
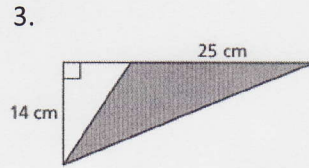


Center #1 – Find the area of the parallelogram (#1 and 2) or triangle (#3 and 4).

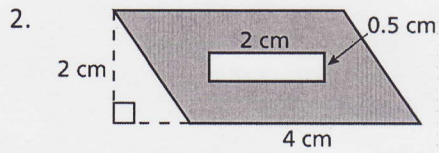
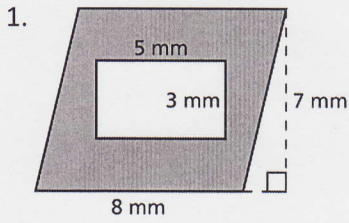


2. $b = 12.75 \text{ in}$ $h = 4.25 \text{ in}$



4. $b = 2\frac{2}{3} h = 5\frac{1}{10}$

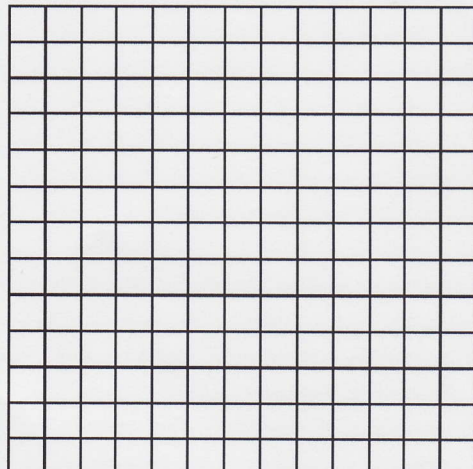
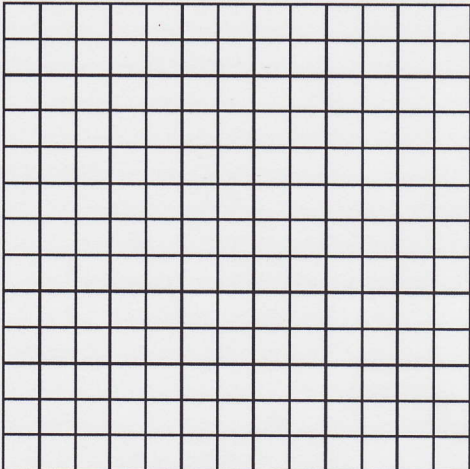
Center #2 – Find the area of the shaded area.



Center #3 – Find the perimeter and area of the polygon with the given vertices.

1. $P(4,3), Q(4,7), R(9,7), S(9,3)$

2. $A(2,2), B(5,2), C(5,10), D(2,10)$



Math 6 ch 4 p184 #1-7 add 9-11 add 13

Center #4 – Find the area of the trapezoid.

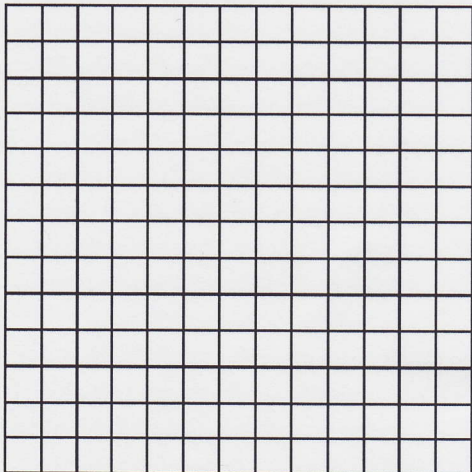
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-
-

Center #5 – Find the area of the figure.

-
-
-

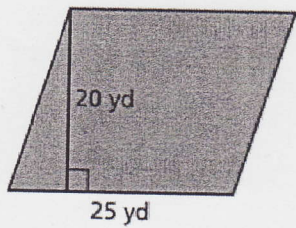
Center #6

The vertices of a yard are A(3,2), B(1,10), C(9,10), D(11,2). The vertices of a garden inside the yard are E(5,5), F(3,8), G(8,8), H(8,5). The coordinates are measured in feet. How many square feet of grass do you need to cover the yard?



Center #1 – Find the area of the parallelogram (#1 and 2) or triangle (#3 and 4).

1.

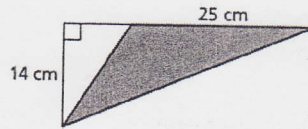


$$25 \times 20 = 500 \text{ yd}^2$$

2. $b = 12.75 \text{ in}$ $h = 4.25 \text{ in}$

$$\begin{array}{r} 12.75 \\ \times 4.25 \\ \hline 54.1875 \text{ in}^2 \end{array}$$

3.



$$25 \times 14 = 350$$

$$350 \div 2 = 175 \text{ cm}^2$$

$$4. b = 2\frac{2}{3} h = 5\frac{1}{10}$$

$$2\frac{2}{3} \cdot 5\frac{1}{10}$$

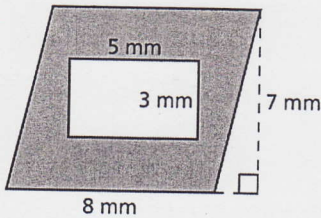
$$\frac{4}{3} \cdot \frac{51}{10} = \frac{68}{5}$$

$$\frac{68}{5} \div 2$$

$$34 \frac{68}{5} \cdot \frac{1}{2} = \frac{34}{5} = 6\frac{4}{5} \text{ units}^2$$

Center #2 – Find the area of the shaded area.

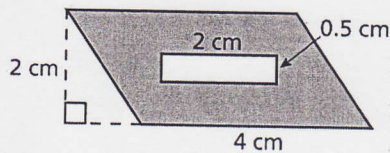
1.



$$8 \times 7 = 56 \quad 5 \times 3 = 15$$

$$56 - 15 = 41 \text{ mm}^2$$

2.

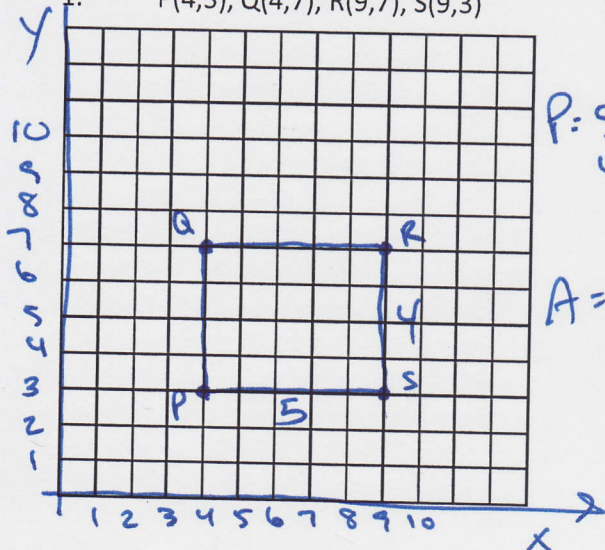


$$4 \times 2 = 8 \quad 2 \times 0.5 = 1$$

$$8 - 1 = 7 \text{ cm}^2$$

Center #3 – Find the perimeter and area of the polygon with the given vertices.

1. $P(4,3), Q(4,7), R(9,7), S(9,3)$



$$P: 5 + 5 = 10$$

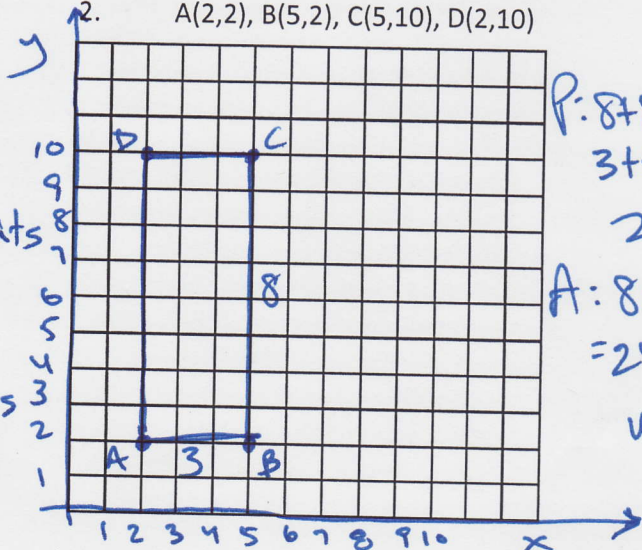
$$4 + 4 = 8$$

$$18 \text{ units}$$

$$A: 5 \times 4$$

$$= 20 \text{ sq. units}$$

2. $A(2,2), B(5,2), C(5,10), D(2,10)$



$$P: 8 + 8 = 16$$

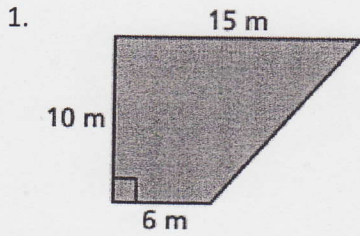
$$3 + 3 = 6$$

$$22 \text{ units}$$

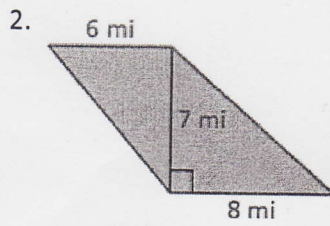
$$A: 8 \times 3$$

$$= 24 \text{ sq. units}$$

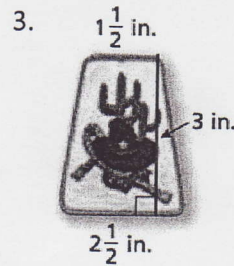
Center #4 – Find the area of the trapezoid.



$$\begin{array}{r} 15 + 6 = 21 \\ \times 10 \\ \hline 210 \div 2 = 105 \text{ m}^2 \end{array}$$

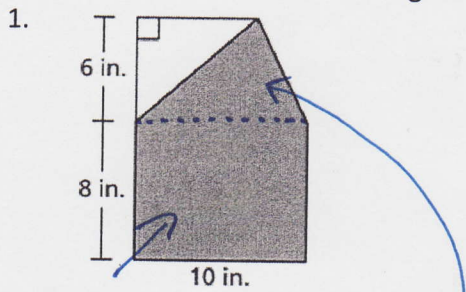


$$\begin{array}{r} 8 + 6 = 14 \\ \times 7 \\ \hline 98 \\ 98 \div 2 = 49 \text{ mi}^2 \end{array}$$

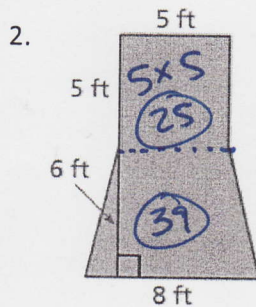


$$\begin{array}{r} 2\frac{1}{2} + 1\frac{1}{2} = 4 \\ 4 \times 3 = 12 \\ 12 \div 2 = 6 \text{ in}^2 \end{array}$$

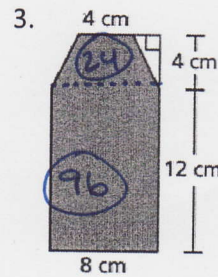
Center #5 – Find the area of the figure.



$$\begin{array}{r} 10 \times 8 = 80 \quad 10 \times 6 = 60 \\ 60 \div 2 = 30 \\ 80 + 30 = 110 \text{ in}^2 \end{array}$$



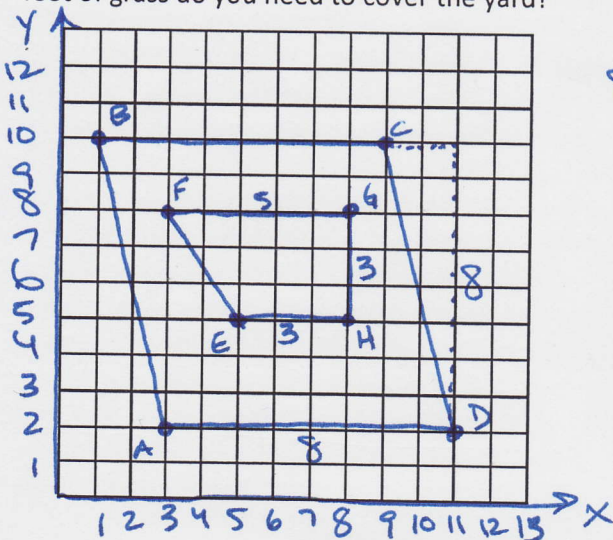
$$\begin{array}{r} 8 + 5 = 13 \\ \times 6 \\ \hline 78 \\ 78 \div 2 = 39 \\ 39 + 25 = 64 \text{ ft}^2 \end{array}$$



$$\begin{array}{r} 8 \times 12 = 96 \\ 8 + 4 = 12 \\ \times 4 \\ \hline 48 \\ 48 \div 2 = 24 \\ 96 + 24 = 120 \text{ cm}^2 \end{array}$$

Center #6

The vertices of a yard are A(3,2), B(1,10), C(9,10), D(11,2). The vertices of a garden inside the yard are E(5,5), F(3,8), G(8,8), H(8,5). The coordinates are measured in feet. How many square feet of grass do you need to cover the yard?



$$\begin{array}{r} \text{ABCD} \\ 8 \times 8 = 64 \end{array}$$

$$\begin{array}{r} \text{EFGH} \\ 5 + 3 = 8 \\ \times 3 \\ \hline 24 \div 2 = 12 \end{array}$$

$$64 - 12 = \boxed{52 \text{ ft}^2}$$