Geometry Practice G.MG.A.3: Area 4

NAME:_____

Find the area:
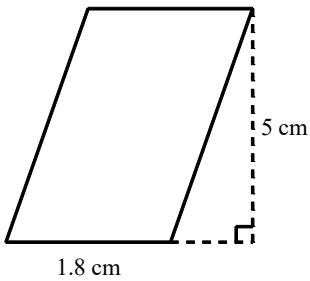
1.   71 m

    62 m   54 m
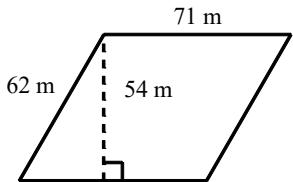
[A] 3834 m^2 [B] 3591 m^2 [C] 4402 m^2 [D] 4118 m^2

2.

    5 cm

    1.8 cm

3. Graph the lines $y = -2$, $y = 4$, $y = 2x$, and $y = 2x - 12$, and find the area of the resulting parallelogram.

4. The area of a parallelogram is 128 cm^2. The height is one half the base. Find the perimeter of the parallelogram.

    [A] 16 cm   [B] 48 cm   [C] 128 cm   [D] 8 cm   [E] not enough information

5. Given parallelogram $ABCD$, for what value of $m\angle A$ will the parallelogram have the greatest area? Explain.

[1] A

[2] 9 cm^2

[3] 36 square units

[4] E

[5] For $m\angle A = 90$. Any larger or smaller angle will result in a shorter height and, hence, a smaller area.