$\qquad$ Date $\qquad$

## Determining the Area of Regular/Irregular Polygons

| In this worksheet, we will practice determining the area of irregular and regular polygons by the |
| :--- |
| composition and decomposition of rectangles and triangles. |
| For example, find the area of the hexagon below. | | The figure gives you the base and height of one triangle. The |
| :--- |
| hexagon is made up of 6 equal triangles. |
| First, find the area of a triangle ( $1 / 2 \mathrm{~b} \times \mathrm{h}=1 / 2 \times 4 \times 4=2 \times 4=8$ ) |
| Then, multiply the area of one triangle (8) |
| by the number of triangles (6) |

(Note: some of the figures are not drawn to scale.)

## Exercise Questions:

1. Find the area of the pentagon below.

2. Find the area of the hexagon below.

3. Find the area of the polygon below.

4. Find the area of the polygon below.

5. Find the area of the polygon below.


## Answer Key

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(Note: some of the figures are not drawn to scale.)

## Exercise Questions:

1. Find the area of the pentagon below.


$$
-36 \text { units }^{2}
$$

2. Find the area of the hexagon below.


108 units $^{2}$
3. Find the area of the polygon below.
 48 units $^{2}$
4. Find the area of the polygon below.
 32 units $^{2}$
5. Find the area of the polygon below.


53 units $^{2}$

## Answer Key

