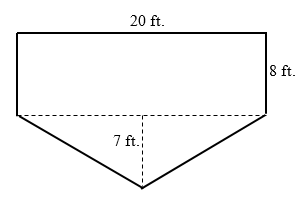
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 8 LESSON 11

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| --- | --- |
| AIM: | SWBAT solve area problems involving compound figures on coordinate grids |

**THINK ABOUT IT!**

What is the area of the figure below?

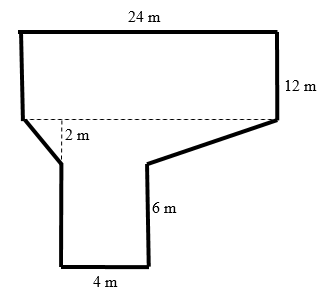


Key Point

|  |
| --- |
| Area of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be found by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into familiar shapes |

**Interaction with New Material**

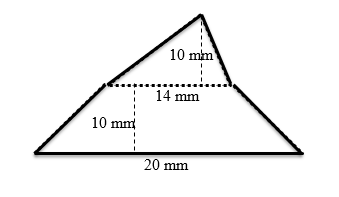
*Ex. 1)* Ms. Pettaway wants to carpet the floor of her first floor. She drew a diagram of the first floor (below). The carpet she wants to buy costs $5 per square meter. How much will it cost to carpet the entire floor?



**PARTNER PRACTICE**

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| *Bachelor Level* |

1. Determine the area of the figure below



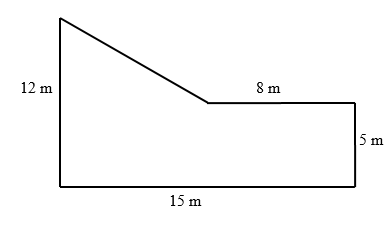
CFS:

* **Annotations**: circle key words, underline what we’re solving for.
* Figure is **decomposed**
* **Dimensions** are labeled
* **Formulas** are written
* All calculations are shown
* Answer statement is BOXED

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| *Master Level* |

1. The figure below represents the floor plan of Dominique’s living room and her porch. She wants to stain the floors this weekend. How many square meters will she stain if she stains the entire floor?



CFS:

* **Annotations**: circle key words, underline what we’re solving for.
* Figure is **decomposed**
* **Formulas** are written
* All calculations are shown
* Answer statement is BOXED

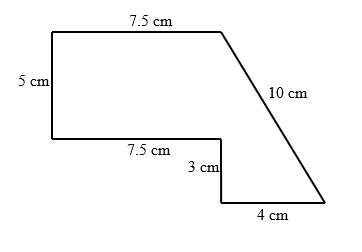
**INDEPENDENT PRACTICE**

|  |
| --- |
| *Bachelor Level* |

CFS:

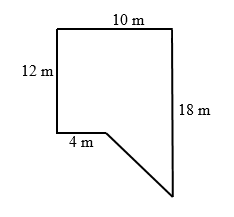
* **Annotations**: circle key words, underline what we’re solving for.
* Figure is **decomposed**
* **Formulas** are written
* All calculations are shown
* Answer statement is BOXED

1. Measure the area of the figure below.

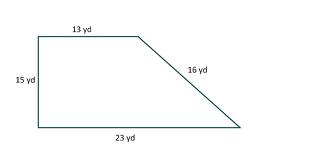


|  |
| --- |
| *Master Level* |

1. The picture below represents Alonso’s backyard. For his chores, he has to move the entire yard. How big is his yard in square meters?



1. The figure below represents a wall in Harry’s apartment. He wants to put wall paper up on the wall. Wall paper is sold in sheets of 20 square yards.



Part A: How many square yards of wall paper does Harry need to cover the entire wall?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part B: How many sheets of wall paper should he buy for this project?

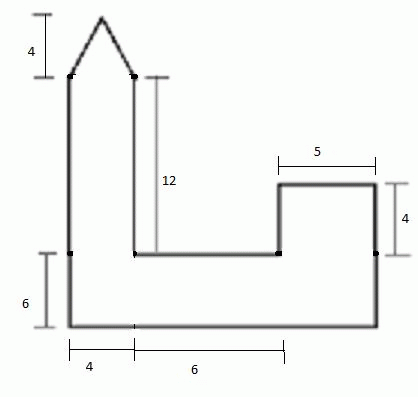
Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part C: If wall paper costs $4.50 per sheet, how much will he spend to complete the project?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| *PhD Level* |

1. The figure below represents the floor layout of Kermit the Frog’s mansion. He wants to place gold carpeting over the entire floor. Gold carpet is sold in rolls of 10 square feet and costs $350 for each roll. He has a discount coupon of $10 off per roll. How much will it cost Kermit to re-carpet his entire mansion?



**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

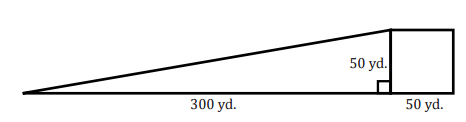
**U8L11 EXIT TICKET**

|  |  |  |  |
| --- | --- | --- | --- |
| Self-assessment | I mastered the learning objective today. | I am almost there. | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there. | You need more practice and feedback. |

1. David is the groundskeeper at a Triangle Park shown below. During the winter, the triangular park and adjacent square parking lot are flooded with water and allowed to freeze so that people can go ice skating. What is the area of the ice?

CFS:

* **Annotations**: circle key words, underline what we’re solving for.
* Figure is **decomposed**
* **Dimensions** are labeled
* **Formulas** are written
* All calculations are shown
* Answer statement is BOXED



50.5 yds.

350.5 yds.