Name: Date: AREA OF TRIANGLES **GEOMETRY** VOCABULARY Area: The number of Square units contained in a figure. **Perpendicular Lines:** Lines that form a $\underline{90}$ angle. **GUIDED NOTES:** 1. To find the area of a triangle, MULTIPLY the height, then divide by two. 2. Another way this can be written is: 1/2 of base x height 3. The algebraic formula is: 4. The base and height are perpendicular to each other. 5. Right angles measure _ qo'dea **GUIDED PRACTICE:** Find the area: Find the area: 1/2 (12×14) CB 40 cm Find the area: Find the area: 22.2 cm 22 m © To the Square Inch, 2021, www.ToTheSquareInch.com

AREA OF TRIANGLES

PRACTICE PROBLEMS:

What is the area of a triangle with a base of 6 m and a height

 $\frac{1}{2}(6.7)^{\text{of 7 m?}} = \frac{21}{2\sqrt{42}}$ $\frac{1}{2}(42)^{-4} = \frac{-4}{2}$

What is the area of a triangle with a base of 10 cm and a height of 40 cm?

 $\frac{1}{z}(10.40)$ $\frac{1}{z}(400) = 200$

What is the area of a triangle with a base of 14.5 cm and a height of 7.1 cm?, 3

14.5 × 7.1)
14.5 × 7.1
14.5 × 7.1
14.5 × 7.1

Find the area of the figure

below: $\frac{1}{2}(4.7)$ $\frac{14}{2}(28)$ $\frac{1}{2}(28)$ $\frac{1}{2}(28)$

Find the area of the figure below:

35 m 32 x30 960 960 960

Find the area of the figure

7 m 25 m 2 168 -161 -9

Susan is making a quilt using triangular shaped pieces. Each triangle piece has a base of 5 inches and a height of 6 inches. If Susan needs to cut 20 identical triangles, what is the total amount of fabric she

 $\frac{1}{2}(5.6)$ $\frac{1}{2}(30) = 15$ one triangle

300 in²

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