Triangles – Part 1
Area and Perimeter in the Coordinate Plane – Part 1
Independent Practice

1. Deloris wants to cover a parallelogram-shaped area of her backyard with yellow, concrete patio stones. Each stone costs $6.42 and covers 50 square inches. The parallelogram-shaped area in the backyard has a height of nine feet and a base of 12 feet.

    Part A: What is the minimum number of stones that Deloris should buy to cover the parallelogram-shaped area in her backyard? Show your work below.

    Part B: How much money is Deloris going to spend on the yellow, concrete patio?

2. A rectangular banner is 5 inches longer than its width. A triangular poster is three times as long as its height. Both the poster and the banner have an area of 24 square inches.

    Part A: What is the height and the base of the poster? Justify your answer.

    Part B: What is the length and width of the banner? Justify your answer.

3. The perimeter of a school gym is 522 feet. The gym measures 80 feet wide. Determine the length of the school gym.

    Ⓐ 442 feet
    Ⓑ 181 feet
    Ⓒ 362 feet
    Ⓓ 90.5 feet

4. The massive rectangular map of the world at *Switchboard INC.* is made of six interlocking isosceles triangle pieces. Each triangle has a base of five feet and a height of eight feet. If the CEO of Switchboard INC. wants to cover the map in a protective residue with two coats of Mod Podge, then what is the total area of covering for the protective residue?

5. A jumbo playing card has an area of 64 square inches and perimeter of 32 inches. What are the dimensions of the playing card?

    _____ inches by _____ inches

6. Consider the parallelogram on the right with an area of $754\ cm^2$.

    Part A: Determine the value of x.

    Part B: Determine the height of the parallelogram.

    $9x - 12$

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