

Fashion Designer

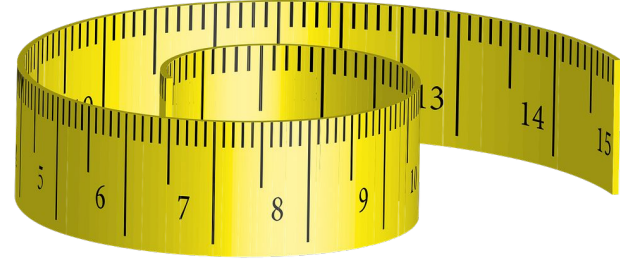


What do Fashion designers do?

Someone who **loves to study fashion trends, sketch designs, select materials, and have a part in all the production aspects of their designs.** They contribute to the creation of millions, if not billions of pieces of clothing and accessories purchased by consumers on a yearly basis.



Usage of Math



Math is a crucial element of fashion design. It is used to **measure sample garments for fitting** as well as to keep sizes consistent. In addition, an **understanding of geometry** is needed when mapping a **two-dimensional pattern** that has to be designed to **fit on a three-dimensional body**.

Math Requirements:

Basic Math, Geometry, and Algebra



20 inches

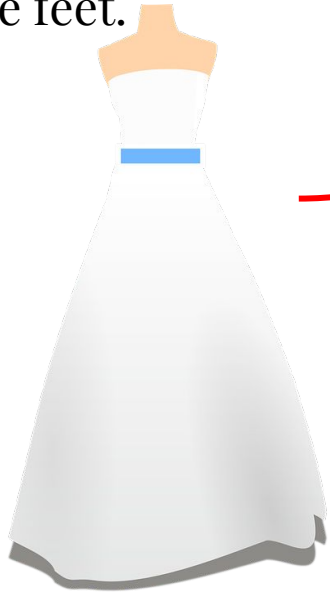
29 inches



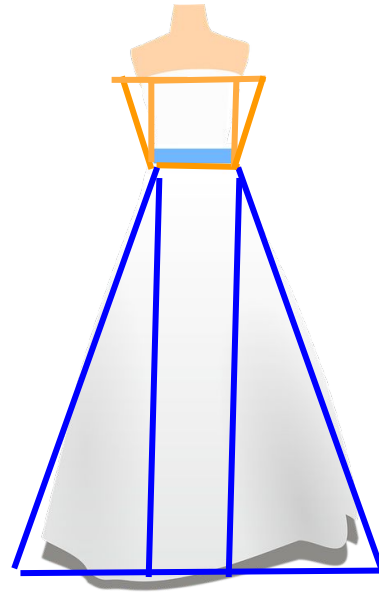
Math Problem



A designer is making a prototype for a wedding gown. First she will have to figure out the area in square feet of the fabric needed for the whole dress. Then she will have to estimate how much fabric in yards she will need for the dress. How many yards of fabric should she buy to be sure she has enough? Remember that 1 yard of fabric has 12 square feet.



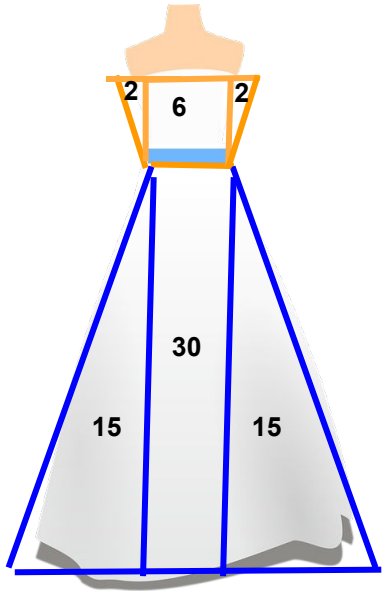
Think of the dress as union of smaller pieces (triangles and rectangles) for which it's easy to compute the area



Math Problem



Using your great math skills you find the areas of all the triangular and rectangular pieces:



Area of one triangle is 2 square feet
Area of one rectangle is 6 square feet

The small trapezoid (on the top) has an area of **10 square feet**

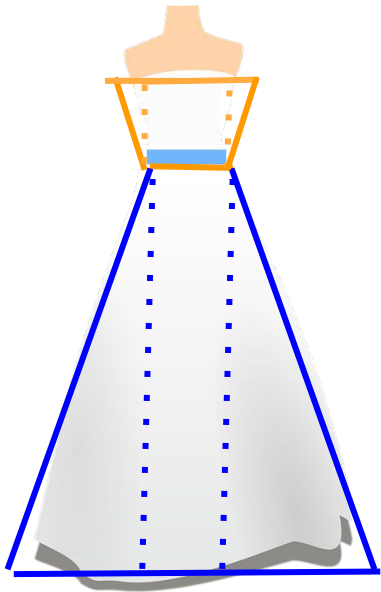
Area of one triangle is 15 square feet
Area of one rectangle is 30 square feet

The large trapezoid (in the bottom) has an area of **60 square feet**

Math Problem



Total area of the front of the dress is 70 square feet. And of course we need another 70 feet for the back. So the designer needs to buy *at least* 140 square feet of fabric.

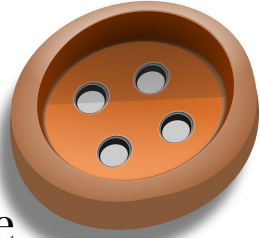


Remember that 1 yard of fabric has 12 square feet.

Because $140/12 = 11.6$, the designer will need to buy at least 12 yards to make the dress.

Since 12 yards of dress correspond to $12 \times 12 = 144$ square feet, she will 4 square feet left.

Education

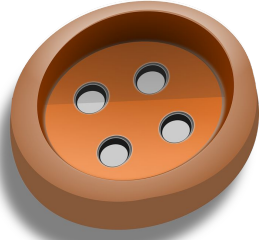


Bachelor's degree programs generally last **four years** and tend to offer more extensive career training, **combining technical coursework with artistic and conceptual instruction**. Courses may include fashion drawing, 3-D design, color theory, textiles, computer-aided design, fashion business and portfolio presentation.

A Master in Fashion will **explore how fashion is connected with other concepts**, such as style, fashion design and collections, as well as fashion industry and journalism. 2 years

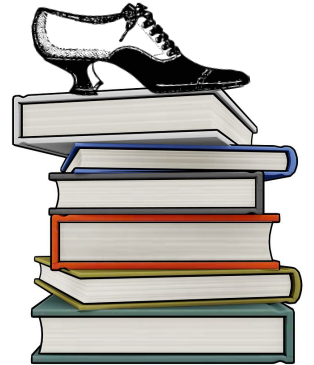


Education



Internship: Hands-on training and industry exposure are essential for obtaining employment in fashion design. Aspiring fashion designers may gain such experience through internship programs, which are often required for graduation from bachelor's degree programs.

Some fashion designers combine a fashion design degree with a business, marketing, or fashion merchandising degree.



Work Cited

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