

Where Do I Go With

How can you decide which provides the biggest meal—two small pizzas or one extra-large? OK, so this may not be the most vital application of geometry, even if you do need to calculate the area of a circle to answer the question. On a more serious level, this branch of mathematics can take you in a number of challenging directions. Start with geometry, and add in ...



ART

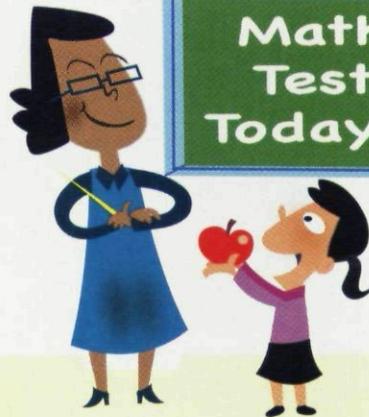
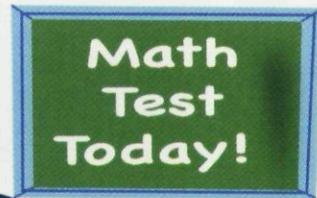
GRAPHIC DESIGNERS

work with lines and shapes to create visually compelling designs and illustrations.

LANDSCAPE ARCHITECTS

use geometry to plan the layout and locations of parks, campuses, walkways, trees, plants, and flowers.

DIGITAL ANIMATORS use computer technology to create moving shapes and images for games, cartoons or other types of animation.



"1001, 1002, 1003 ..."

MORE MATH

MATHEMATICIANS conduct theoretical research and projects in business, industry, and government and teach at the elementary, secondary or college level.

STATISTICIANS collect, analyze, and interpret data to understand trends and make decisions in business, education, government, and other areas.

ACTUARIES help insurance companies or other businesses assess risks, determine probabilities for the occurrence of certain events, and address complex financial questions.



h Geometry?

SCIENCE

MEDICAL-IMAGING SPECIALISTS visually reconstruct the shapes of bones, organs, and tissues from information provided through CAT scans, sonograms, and other measurements.

ENVIRONMENTAL SCIENTISTS use geometry to develop models and analyze data that help them understand a variety of ecosystems.

AEROSPACE MATHEMATICIANS develop conceptual models of spacecraft systems or of natural systems such as Earth's atmosphere or field of gravity.



TECHNOLOGY

CIVIL ENGINEERS use geometric principles to develop designs for roads, bridges, water systems, or other projects.

COMPUTER ENGINEERS use geometric modeling in developing and refining software programs.

AIR TRAFFIC CONTROLLERS employ a precise understanding of spatial relationships of different aircraft to help pilots navigate a specified area of the sky and landing areas.



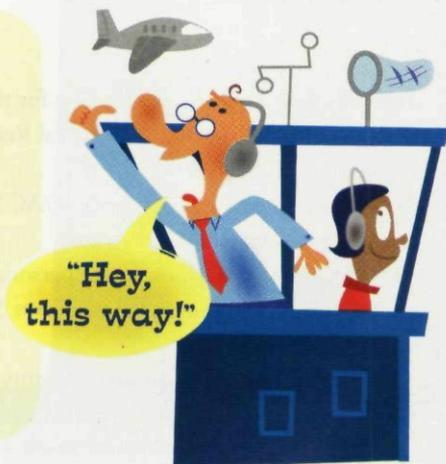
CONSTRUCTION

CONSTRUCTION WORKERS employ the basic principles of geometry in preparing materials and in building.

ARCHITECTS use angles, shapes, and other geometric elements in designing buildings and homes.

ENGINEERING/COMPUTER-AIDED DESIGN TECHNICIANS draft architectural plans and other types of technical drawings.

FLOORING INSTALLERS determine angles and other measurements while installing carpet, tile, and other flooring materials.



Copyright of Career World is the property of Weekly Reader Corporation and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use.