

Pi Day

Not pie... π ! March 14th is Pi Day. Along with “Sir Cumference” students will celebrate with a variety of activities and games using this magical number. Which pizza is the best buy? The answer can be found with pi!

Kansas College and Career Ready Standards for Math:

- 5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.
- 5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.
- 6.NS.3. Fluently add, subtract, multiply, and divide multi-digit decimals using an efficient algorithm for each operation.
- 7.G.4. Use the formulas for the area and circumference of a circle and solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

Materials needed:

Calculators for the class

Pencils

Copies of the “Pizza Pi” pages, one copy per student

Pizza restaurant menus

Students will need to find the price and diameter of pizzas. **Menus from different pizza restaurants (these can be printed from the internet) will be necessary.** Local as well as national chain pizza parlors can be used. Those that state the diameter of the pizza on the menu are most helpful. If it’s not noted on the menu, check to see if it’s located somewhere on the website (if online) and add the diameter to the menu if possible. **Have students collect these menus and bring to the IDL program.** Students can share menus.

Program Connection Information

Please use an external microphone (conference style) rather than the integrated one in the computer for the audio for your class and locate it centrally in the room. It can be difficult for the Greenbush teacher to hear the students using the computer microphone and therefore it reduces the interactive nature of the lesson. It is fine to use the computer webcam for your video source though.

All classes will take place using Zoom desktop video. If your building is already set up to use a desktop video application with a computer, simply open a browser and enter <https://zoom.us/j/3662120241> in the URL space. You may need to download Zoom launcher software (free download) if you don't already have it. This needs to be done in advance of the lesson.

If using a Polycom video conferencing unit (or any legacy type video conferencing unit) to connect to a ZOOM conference, make sure the unit is in "encrypted mode" then dial the following IP on the internet: 162.255.37.11 or 162.255.36.11 and once connected, they will ask for a MEETING ID: enter 3662120241 (for Sharon at Science Center).

It's always a good idea to touch base with your district technology facilitator prior to your program to make sure all systems/equipment are in place and operational and no firewalls that might prevent you from connecting to Zoom.

Classes take place at the following times:

9:00-9:45
10:00-10:45
12:15- 1:00
1:15-2:00
2:15-3:00

If you log in during one of those times, you may connect during another class' lesson. If you do, please check your connection to make sure things are working properly and then leave the meeting until your scheduled time by selecting "End Meeting" in the lower right corner of your Zoom screen and click on "End Meeting". You will need to rejoin the meeting at your scheduled time. This prevents your site from interfering with the lesson currently in progress. After your lesson is finished, please leave the meeting.

If you have questions, please call Sharon Bertolio at Greenbush (620-724-6281).



Pizza Pi

Which Pizza Is The Best Value?

Instructions

1. Find the diameter of your pizza in inches. Sellers generally use diameter as a measure of your pizza size.
2. Divide the diameter by two to get the radius. For a 12-inch diameter, for example, your radius will be 6 inches.
3. Calculate the area by using the standard math equation "pi r squared" where r is the radius. To do this, just square the radius (6 becomes 36) and then multiply your product by the value of "pi", which is 3.14.
4. Drop the decimals. Because pi is virtually endless, you'll never get a round number when using it in a calculation. Just stick to the first two decimal places.
5. Figure out your total cost when you have your final calculation of square inches (for our 12-inch pizza, it's 113.04 square inches). Add all taxes and delivery charges. You'll need to figure out how much your pizza costs, it's always different. Pizza is one commodity that is priced to sell.
6. Divide that cost by the number of square inches as you've calculated it. When you've got it, you can annoy mooching friends by telling them that their next bite is going to cost them, say 36 cents for the 1.15 square inches they are about to swallow.

http://www.ehow.com/how_2384934_figure-cost-per-square-inch.html

