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Standard engineering drawing sheet sizes

A whole sheet metal cake is 18 inches by 24 inches and serves about 80 people. A whole sheet metal cake can be cut into 64 2-inch-by-3-inch slices or 96 2-inch-by-2-inch pieces. Other popular tin cake sizes are half- and quarter-sheet cakes. A half-sheet cake is usually baked in a 12-inch-by-16-inch pan, but can also be made in an 11-inch-by-15-inch pan. Half a sheet usually feeds 40 people. It can be sliced into 32 2-inch-by-3-inch discs or 48 2-inch-by-2-inch pieces. A quarter plate cake is 9 inches by 13 inches, the size of a typical home cake pan. A quarter of a plate cake serves about 20 people. It can be sliced into 16 2-inch-by-3-inch discs or 24 2-inch-by-2-inch pieces. Half- and full-sized tin cakes are often baked in two layers with a filling. To bake a half- or whole cake in a smaller oven, two or four quart tin cakes can be baked and placed together before glaze like a large cake. This segmented method adds the bonus of making a cake that looks like a large cake but can include a variety of cake and filling flavors, such as vanilla cake, chocolate cake, lemon cake and yellow cake in each of the four quarters. Envelopes have been around since the 1840s and remain a staple of business correspondence. Envelopes come in a variety of styles as well as sizes to meet users' needs. Businesspeople can usually choose the envelopes they require very easily because they come in several standard sizes. Envelopes used by companies and organizations typically fall into one of two categories: those used for regular business correspondence and remittance envelopes. Business correspondence sizes start the smallest, designated small business or 6 1/4, measuring 3.5-by-6 inches. The largest standard size envelope is #14, which is 5-by-11.5 inches. The #10 is the most widely used envelope for business correspondence and measures 4 1/8-by-9.5 inches. Remittance envelopes are often used to invoice customers and to provide pre-addressed envelopes to return payments. The smallest remittance envelope, denoted as 6 1/4, measures 3.5-by-6 inches. The largest commonly used remittance envelope is #9, which measures 3 7/8-by-8 7/8 inches. The two standard sizes of playing cards are the poker size and bridge size. Poker-sized playing cards are 2.5 inches wide by 3.5 inches long. Bridge-sized cards are 2.25 inches wide by 3.5 inches long. Casinos use standard bridge-sized playing cards on many of their tables. These cards are narrower than poker-sized cards, making them easier to handle, shuffle and deal. Poker-sized playing cards are used for most card games. Other sizes of playing cards are also manufactured to suit different uses. Solitaire playing cards come in a compact size that makes them easy to transport in a purse or bag and measure just 1.75 inches wide by 2.625 inches long. Larger cards are used to perform magic tricks. Diesel engines thunder down the track on railways World. Learn how to draw these workhorse engines using the step-by-step instructions on this page. In this section we will show you how to draw the above diesel engine. Either drag it free while you look at your computer screen or print this page to get a closer look at each step. Follow the red lines in each illustration to learn exactly what to draw in that step. The lines drawn in previous steps appear in gray. Here we show an illustration of each step and then give you a description of how to draw it. Ready to go? Check out the next page for the first step. Content Draw a long, rounded train shape for the main part of the engine. Add six wheels, four to the front and two to the back. On the next page, we'll add the wheel guards. Advertisement Sketch a crooked rectangle with an angled shape under it to create the wheel cover on the front of the car. Create the rear lower part of the car with an angular shape of the rear wheels. We will work on adding details to the body on the next page. Ad Draw a large, bold flash along the length of the car. Add some stacked long, thin rectangles for the windows. Next, we will work on drawing the windows for the cab. Ad Draw three square shapes for the main cab windows. Add geometric shapes like the ones that appear along the lower edge of the cab. These shapes should partially cover the wheels. On the next page we add a door and more windows. Advertisement Draw four round windows on the side of the car. Add a door in the center and a couple of small rectangular gaps near the front. Sketch a bold, squatty cylinder for a candle on the hood. Next, we add a ladder and upper window. Ad Use rectangles and straight vertical lines to create the top two windows. Sketch a large ladder in the middle door. Draw lines on the front of the train and a small oval in the hatch to add detail. Add a clutch hook (shaped like the end of a wrench) to the back of the engine. Next we find out how to add the finishing touches. Ad Track the pencil lines you want with a felt-tip pen. Delete any extra lines. Everybody on board! Now that you've mastered our train drawing techniques, you can draw all the train configurations your imagination can dream of. Ad See all How to Draw articles. Engineering drawing software, like Auto-CAD or Solid Works, allows engineers and boxes to spend more time creating and innovative mechanical or electrical drawings. Most technical drawing software comes with a library of parts or components ready to drag and drop on the screen. The importance of technical drawing software is the time it can save to create drafts for engineers, scientists, technicians and draughtsmen. Of equal importance is the coherency of drafts that it can produce. Applications like Solid Works allow ejectors to create three-dimensional drawings that are more interactive than the older drawing programs. Apart from the diagrams and blow-up diagrams, technology drawing software can include flowcharts and chart process. This type of drawing is made using Microsoft Visio. Some companies have developed entire assembly procedures and parts descriptions for manufacturing with Visio only, and some programming. Engineering artworks and drafts are often stored and accessed by computer databases, such as Oracle.HistoryThe earliest engineering drawing software is the world-famous CAD (computer-aided drawing) application. CAD was originally a two-dimensional drawing program with very limited drawing tools, consisting of circles and simple line drawing tools. Today, CAD includes extensions like Wire Frame to enable the creation of three-dimensional drawings. MTypesThere are a number of programs for technical drawing software. Mechanical computer-aided design software (MCAD) is mainly used by mechanical engineers. Solid Works is one of the most popular mechanical drawing programs. File formatting is saved in Microsoft Structured Storage. This format includes several files that are nested in each other, including previews, images, and metadata files. Those who make the drawing are usually draughtsmen or technical illustrators. Engineers spend more time analyzing drawings and crunching numbers. Graphing/ visualization applications are used to reproduce scientific data into a coherent drawing. Engineers convert data into visual graphs that work with relational databases and reference documents. Graphs and drawings can then be stored in an online analytical processing model (OLAP). OLAP is accessed in multidimensional views by a common network of scientists, engineers, bouncers and technicians. Tecplot helps engineers draw out dynamic data maps. Tecplot has been used to create 3D graphs for invisible structures such as magnetic fields and biotechnology models. Auto CAD is still the most widely used engineering drawing software. By using C++ code, engineers and bouncers can customize CAD objects, resulting in more accurate and flexible drawings. For Mac and Linux, QCAD is the popular technology drawing software. ImportanceThe visual aspect of drawing software is a key component of assembly instructions for engineering/manufacturing companies. None of the products we use today could be manufactured exactly without engineering drawing software. Drawings are fixed point for accuracy and scaled. This scales the size and dimension (or upwards) for printing to paper or an electronic media. A scaled technical drawing is a representation of something with physical dimensions. Without scaling, all drawings would have to match the exact size of the object being represented. ConsiderationsThree-dimensional drawing programs were developed to accelerate design processes in technology. A problem that comes from engineering drawing software is subject to simulations. Simulation-type drawings are useful for training personnel in dangerous manufacturing facilities where hazardous chemicals are handled. Simulation drawings are time-consuming to create, however, and can actually inhibit productivity in the long run. Drawings are more likely used instead of simulations. UseA common use for engineering drawing software is to create documentation for an engineering group. For example, a mechanical engineer assembles three-dimensional components for a new product prototype. An electrical engineer would then pull out a two-dimensional power distribution plan in the new product. Technical illustration software or CAD is used to draw the two-dimensional plan. In the case of an electronic file, the engineer or bouncer will insert hyperlinks into the three-dimensional plan, which links to a two-dimensional electrical plane for the new product. Modern technology drawing software, including Visio, has intelligent objects that have been preprogrammed to align on the computer screen and connect lines where it makes sense to do so. The illustrator or bouncer moves objects around more than drawing. Future ApplicationsA technology area that opens the way to the future of technical drawing is virtual reality. Virtual drawings allow engineers to visit inside space stations in the future, project problems with their design and improve an existing design without ever leaving the office. In the real world, Ford Motors has used virtual reality to step into a drawing of a car. Virtual drawings can help engineers find defects before a product has gone to market. In fact, engineers can utilize virtual drawings to determine the best assembly procedures before the first prototype reaches the assembly line. The use of virtual drawings can save a business money and increase the speed of the design process significantly. Significantly.