



Střední odborná škola stavební a Střední odborné učiliště stavební Rybitví

Vzdělávací oblast: Anglický jazyk

Název: Weight and measures

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Stručná anotace: Materiál slouží k rozšíření znalostí a vědomostí a mírách a váhách v UK a USA

Tento materiál byl vytvořen v rámci projektu

Inovace ve vzdělávání na naší škole

V rámci OP Vzdělávání pro konkurenceschopnost



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Weights and measures

Míry a váhy

length - délka

Conversion Factors

1 centimeter = 0.39 inch
1 inch = 2.54 centimeters
1 meter = 39.37 inches
1 foot = 0.305 meter
1 meter = 3.28 feet
1 yard = 0.914 meter
1 meter = 1.094 yards
1 kilometer = 0.62 mile
1 mile = 1.609 kilometers

American and British Units

1 inch = $\frac{1}{36}$ yard = $\frac{1}{12}$ foot
1 foot = $\frac{1}{3}$ yard
1 yard (basic unit of length)
1 rod = $5 \frac{1}{2}$ yards
1 furlong = 220 yards = 40 rods
1 mile = 1,760 yards = 5,280 feet
1 fathom = 6 feet
1 nautical mile = 6,076.1 feet

area - rozloha

Conversion Factors

1 square centimeter = 0.155 square inch
1 square inch = 6.45 square centimeters
1 acre = 0.405 hectare
1 hectare = 2.47 acres
1 square kilometer = 0.386 square mile
1 square mile = 2.59 square kilometers

American and British Units

1 square inch = $\frac{1}{1,296}$ square yard = $\frac{1}{144}$ square foot
1 square foot = $\frac{1}{9}$ square yard
1 square yard (basic unit of area)
1 square rod = $30 \frac{1}{4}$ square yards
1 acre = 4,840 square yards = 160 square rods
1 square mile = 3,097,600 square yards = 640 acres

volume and capacity (liquid and dry) - objem a obsah

Conversion Factors

1 cubic centimeter = 0.06 cubic inch
1 cubic inch = 16.4 cubic centimeters
1 cubic yard = 0.765 cubic meter
1 cubic meter = 1.3 cubic yards
1 milliliter = 0.034 fluid ounce
1 fluid ounce = 29.6 milliliters
1 U.S. quart = 0.946 liter
1 liter = 1.06 U.S. quarts
1 U.S. gallon = 3.8 liters
1 imperial gallon = 1.2 U.S. gallons = 4.5 liters
1 liter = 0.9 dry quart
1 dry quart = 1.1 liters
1 dekaliter = 0.28 U.S. bushel
1 U.S. bushel = 0.97 imperial bushel = 3.5 dekaliters

American and British Units

1 cubic inch = 1/46,656 cubic yard = 1/1,728 cubic foot
1 cubic foot = 1/27 cubic yard
1 cubic yard (basic unit of volume)
1 U.S. fluid ounce = 1/128 U.S. gallon = 1/16 U.S. pint
1 British imperial fluid ounce = 1/160 imperial gallon = 1/20 imperial pint
1 pint = 1/8 gallon = 1/2 quart
1 quart = 1/4 gallon
1 U.S. gallon (basic unit of liquid capacity in the United States) = 231 cubic inches
1 imperial gallon (unit of liquid capacity in some Commonwealth nations) = 277.4 cubic inches
1 dry pint = 1/64 bushel = 1/2 dry quart
1 dry quart = 1/32 bushel = 1/8 peck
1 peck = 1/4 bushel
1 U.S. bushel (basic unit of dry capacity in the United States) = 2,150.4 cubic inches
1 imperial bushel (unit of dry capacity in some Commonwealth nations) = 2,219.4 cubic inches

weight (mass) - váha (hmotnost)

Conversion Factors

1 milligram = 0.015 grain
1 grain = 64.8 milligrams
1 gram = 0.035 avoirdupois ounce
1 avoirdupois ounce = 28.35 grams
1 troy or apothecaries' pound = 0.82 avoirdupois pound = 0.37 kilogram
1 avoirdupois pound = 1.2 troy or apothecaries' pounds = 0.45 kilogram

1 kilogram = 2.205 avoirdupois pounds
1 short ton = 0.9 metric ton
1 metric ton = 1.1 short tons

American and British Units: Avoirdupois

1 grain = $\frac{1}{7,000}$ pound = $\frac{1}{437.5}$ ounce
1 dram = $\frac{1}{256}$ pound = $\frac{1}{16}$ ounce
1 ounce = $\frac{1}{16}$ pound
1 pound (basic unit of weight or mass)
1 short hundredweight = 100 pounds
1 long hundredweight = 112 pounds
1 short ton = 2,000 pounds
1 long ton = 2,240 pounds

American and British Units: Troy and Apothecaries'

1 grain = $\frac{1}{7,000}$ avoirdupois pound = $\frac{1}{5,760}$ troy or apothecaries' pound
1 apothecaries' scruple = 20 grains = $\frac{1}{3}$ dram
1 pennyweight = 24 grains = $\frac{1}{20}$ troy ounce
1 apothecaries' dram = 60 grains = $\frac{1}{8}$ apothecaries' ounce
1 troy or apothecaries' ounce = 480 grains = $\frac{1}{12}$ troy or apothecaries' pound
1 troy or apothecaries' pound = 5,760 grains = $\frac{5,760}{7,000}$ avoirdupois pound

linear measure - délková míra

12 inches (in.) =	1 foot (ft.)
3 feet =	1 yard (yd)
5 ½ yards =	1 rod (rd), pole, or perch (16 ½ ft.)
40 rods =	1 furlong (fur) = 220 yds = 660 ft.
8 furlongs =	1 statute mile (mi.) = 1,760 yds = 5,280 ft.
3 land miles =	1 league
5,280 feet =	1 statute or land mile
6,076.11549 feet =	1 international nautical mile

area measure - plošná míra

144 square inches =	1 sq ft.
9 square feet =	1 sq yd = 1,296 sq in.
301/4 square yards =	1 sq rd = 2721/4 sq ft.
160 square rods =	1 acre = 4,840 sq yds = 43,560 sq ft.
640 acres =	1 sq mi.
1 square mile =	1 section (of land)
6 square miles =	1 township = 36 sections = 36 sq mi.

cubic measure - krychlová míra (pro měření objemu)

1,728 cubic inches =	1 cu ft.
27 cubic feet =	1 cu yd

liquid measure - dutá míra (pro měření objemu kapalných látek)

4 gills (gi) =	1 pint (pt) (= 28.875 cu in.)
2 pints =	1 quart (qt) (= 57.75 cu in.)
4 quarts =	1 gallon (gal) (= 231 cu in.) = 8 pts = 32 gills

avoirdupois weights - angloamerická váhová soustava

16 drams	= 1 ounce
16 ounces	= 1 pound
7 pounds	= 1 clove

14 pounds	= 1 stone
28 pounds	= 1 tod
112 pounds	= 1 hundredweight
364 pounds	= 1 sack
2240 pounds	= 1 ton
2 stones	= 1 quarter
4 quarters	= 1 hundredweight
20 hundredweight	= 1 ton

troy & apothecaries weights - trójské a lékárenské váhy

1 ounce	= 480 grains
1 ounce	= 24 scruples
1 ounce	= 20 pennyweights
1 ounce	= 8 drams

length - délka

1 nail	= 21 inches
4 inches	= 1 hand
12 inches	= 1 foot
3 foot	= 1 yard
5.5 yards	= 1 rod
6 foot	= 1 fathom
22 yards	= 1 chain
100 links	= 1 chain
10 chains	= 1 furlong
8 furlongs	= 1 statute mile
6080 foot	= 1 nautical mile

volume - objem

60 minims	= 1 fluid drachm
8 fluid drachms	= 1 fluid ounce
20 fluid ounces	= 1 pint
4 gills	= 1 pint
2 pints	= 1 quart
4 quarts	= 1 gallon
2 gallons	= 1 peck
4 pecks	= 1 bushel
8 bushels	= 1 quarter
36 bushels	= 1 chaldron

Zdroje:

www.google.cz

www.Anglictinaonline.cz

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