



Work Ready Math win

Formula Sheet

UNITS OF MEASUREMENT

Distance

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5280 feet
1 mile $\approx$ 1.61 kilometers
1 inch = 2.540 centimeters
1 foot = 0.3048 meters
1 meter = 100 centimeters
1 kilometer = 1,000 meters
1 kilometer $\approx$ 0.62 miles

Area

1 square foot = 144 square inches
1 square yard = 9 square feet
1 acre = 43,560 square feet

Volume

1 cup = 8 fluid ounces
1 quart = 4 cups
1 gallon = 4 quarts
1 gallon = 231 cubic inches
1 liter $\approx$ 0.264 gallons
1 cubic foot = 1,728 cubic inches
1 cubic yard = 27 cubic feet
1 board foot = 1 inch by 12 inches by 12 inches

Mass

1 ounce $\approx$ 28.350 grams
1 pound = 16 ounces
1 pound $\approx$ 453.592 grams
1 milligram = 0.001 grams
1 kilogram = 1,000 grams
1 kilogram $\approx$ 2.2 pounds
1 ton = 2,000 pounds

Temperature

$^{\circ}\text{C} = 5/9(^{\circ}\text{F} - 32)$

$^{\circ}\text{F} = (9/5 \times ^{\circ}\text{C}) + 32$

Electricity

1 kilowatt-hour = 1,000 watt-hours

FORMULAS

Rectangle

perimeter = $2(\text{length} + \text{width})$
area = $\text{length} \times \text{width}$

Cube

volume = $(\text{length of side})^3$

Rectangular Prism

volume = $\text{length} \times \text{width} \times \text{height}$

Triangle

sum of angles = 180°

area = $\frac{1}{2}(\text{base} \times \text{height})$

Circle

number of degrees in a circle = 360°
circumference $\approx 3.14 \times \text{diameter}$
area $\approx 3.14 \times (\text{radius})^2$

Cylinder

volume $\approx 3.14 \times (\text{radius})^2 \times \text{height}$

Cone

volume $\approx \frac{3.14 \times (\text{radius})^2 \times \text{height}}{3}$

Sphere

volume $\approx \frac{4}{3} \times 3.14 \times (\text{radius})^3$

Amperage

amps = watts / volts



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Customary Units

Time

1 minute (min) = 60 seconds (sec)

1 hour (hr) = 60 minutes (min)

1 day = 24 hours (hr)

1 week (wk) = 7 days

Weight

1 pound (lb) = 16 ounces (oz)

1 ton (T) = 2,000 pounds (lb)

Length

1 foot (ft) = 12 inches (in)

1 yard (yd) = 3 feet (ft)

1 mile (mi) = 5,280 feet (ft)

Capacity

1 tablespoon (tbsp) = 3 teaspoons (tsp)

1 cup (c) = 16 tablespoons (tbsp)

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

thousands or kilo	hundreds or hecto	tens or deca	ones	tenths or deci	hundredths or centi	thousandths or milli
$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$	$\underbrace{\hspace{1.5cm}}$
1,000	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1,000}$
k	h	da	m,l,g	d	c	m

UNIDADES DE MEDIDA

Distancia

1 pie = 12 pulgadas
1 yarda = 3 pies
1 milla = 5,280 pies
1 milla = 1.61 kilómetros
1 pulgada = 2.540 centímetros
1 pie = 0.3048 metros
1 metro = 1,000 milímetros
1 metro = 100 centímetros
1 kilómetro = 1000 metros
1 kilómetro = 0.62 millas

Area

1 pie cuadrado = 144 pulgadas cuadradas
1 yarda cuadrada = 9 pies cuadrados
1 acre = 43,560 pies cuadrados

Volumen

1 taza = 8 onzas
1 cuarto = 4 tazas
1 galón = 4 cuartos
1 galón = 231 pulgadas cúbicas
1 litro = 0.264 galones
1 pie cúbico = 1,728 pulgadas cúbicas
1 yarda cúbica = 27 pies cúbicos
1 pie de tabla = 1 pulgada por 12 pulgadas por 12 pulgadas

Masa

1 onza = 28.350 gramos
1 libra = 16 onzas
1 libra = 453.592 gramos
1 miligramo = 0.001 gramos
1 kilogramo = 1,000 gramos
1 kilogramo = 2.2 libras
1 tonelada = 2,000 libras

Capacidad

1 cucharada (tbsp) = 3 cucharaditas (tsp)
1 taza (c) = 16 cucharadas (tbsp)
1 taza (c) = 8 onzas líquidas (oz fl)
1 pinta (pt) = 2 tazas (c)
1 cuarto (qt) = 2 pintas (pt)
1 galón (gal) = 4 cuartos (qt)

Electricidad

1 kilowatt-hora = 1,000 watt-hora

FORMULAS

Rectángulo

perímetro = $2(\text{largo} + \text{ancho})$
área = $\text{largo} \times \text{ancho}$

Prisma Rectangular

volumen = $\text{largo} \times \text{ancho} \times \text{altura}$

Cubo

volumen = $(\text{largo del lado})^3$

Triángulo

suma de ángulos = 180°
área = $\frac{1}{2}(\text{base} \times \text{altura})$

Círculo

núm. de grados en un círculo = 360°
circunferencia = $3.14 \times \text{diámetro}$
área = $3.14 \times (\text{radio})^2$

Cilindro

volumen = $3.14 (\text{radio})^2 \times \text{altura}$

Cono

volumen = $\frac{3.14 (\text{radio})^2 \times \text{altura}}{3}$

Esfera

volumen = $\frac{4}{3} \times 3.14 \times (\text{radio})^3$

Amperaje

amps = watts / voltios

Temperatura

$^\circ\text{C} = 5/9(^\circ\text{F} - 32)$
 $^\circ\text{F} = (9/5 \times ^\circ\text{C}) + 32$

Al contestar las preguntas de Work Ready Math, no olvide

- Redondear su respuesta a la centésima más cercana (2 lugares decimales), y
- Utilizar 3.14 al realizar cálculos que requieran Pi.

Unidades habituales

Tiempo

1 minuto (min) = 60 segundos (seg)

1 hora (h) = 60 minutos (min)

1 día = 24 horas (h)

1 semana (semana) = 7 días

Peso

1 libra (lb) = 16 onzas (oz)

1 tonelada (T) = 2000 libras (lb)

Longitud

1 pie (pies) = 12 pulgadas (pulg.)

1 yarda (yd) = 3 pies (pies)

1 milla (mi) = 5280 pies (pies)

Capacidad

1 cucharada (tbsp) = 3 cucharaditas (tsp)

1 taza (c) = 16 cucharadas (tbsp)

1 taza (c) = 8 onzas líquidas (oz líquida)

1 pinta (pt) = 2 tazas (c)

1 cuarto (qt) = 2 pintas (pt)

1 galón (gal) = 4 cuartos (qt)

