

METRIC CONVERSIONS STUDY GUIDE



METRIC WEIGHT



MILLIGRAMS

GRAMS

KILOGRAMS

$\div 1,000$

$\div 1,000$

$\times 1,000$

$\times 1,000$



METRIC LENGTH



MILLIMETERS

CENTIMETERS

METERS

KILOMETERS

$\div 10$

$\div 100$

$\div 1,000$

$\times 10$

$\times 100$

$\times 1,000$



METRIC CAPACITY



MILLILITERS

LITERS

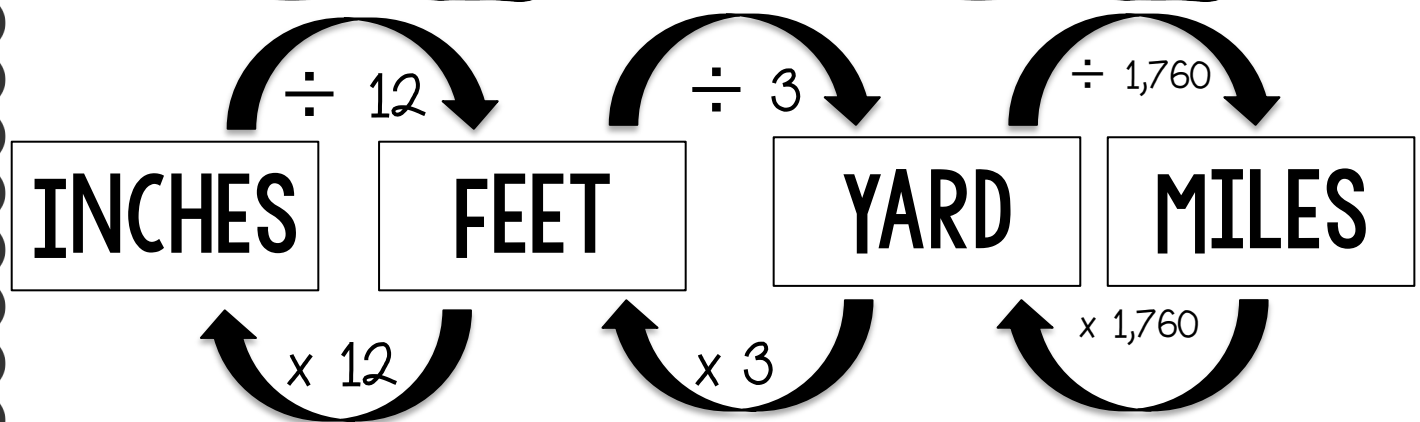
$\div 1,000$

$\times 1,000$

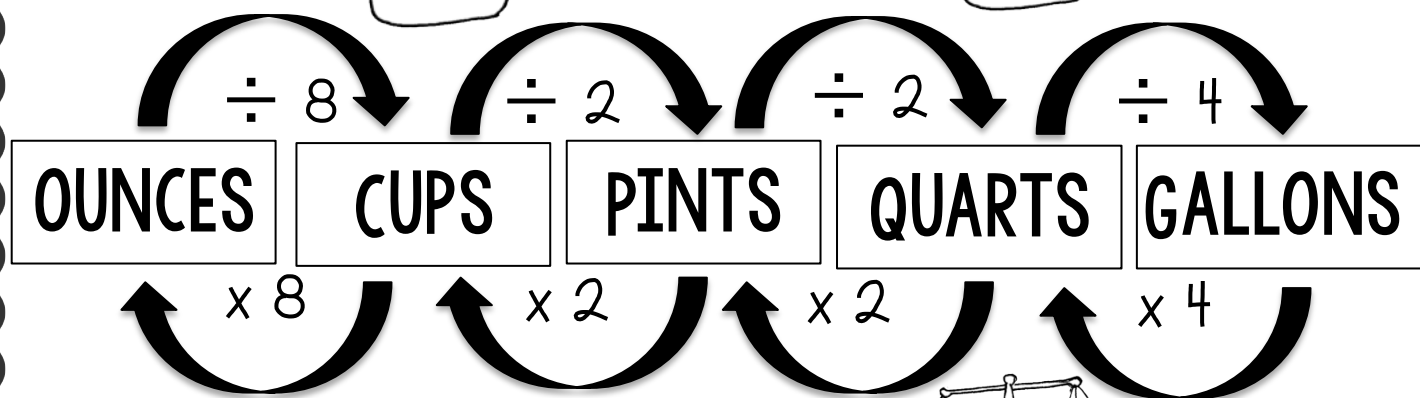
CUSTOMARY CONVERSIONS STUDY GUIDE



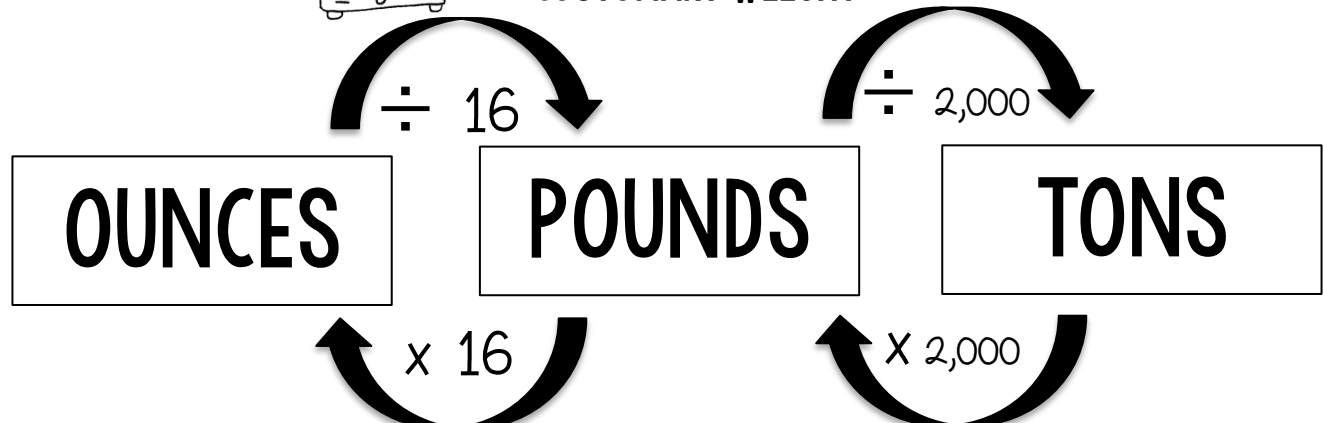
CUSTOMARY LENGTH



CUSTOMARY CAPACITY



CUSTOMARY WEIGHT



MODEL FOLDABLES



CUSTOMARY MEASUREMENTS LENGTH

$1 \text{ CUP (C.)} = 8 \text{ FLUID OUNCES (OZ.)}$
 $1 \text{ PINT (PT.)} = 2 \text{ C.}$
 $1 \text{ QUART (QT.)} = 2 \text{ PT.}$
 $1 \text{ GALLON (G.)} = 4 \text{ Qt.}$
VISUALIZE IT!

Visualize

CUSTOMARY MEASUREMENTS WEIGHT

$1 \text{ POUND (LB.)} = 16 \text{ OUNCES (OZ.)}$
 $1 \text{ TON (T.)} = 2,000 \text{ LB.}$
VISUALIZE IT!

1 Ounce

- AA Battery
- Slice of Bread
- Pen
- Small Eraser

1 Pound

1 Pound of Apples

1 TON

- Small Car
- Van
- Adult Rhino
- Adult Hippo
- Moose
- Horse
- Polar Bear

CUSTOMARY MEASUREMENTS LENGTH

$1 \text{ FOOT (FT.)} = 12 \text{ INCHES (IN.)}$
 $1 \text{ YARD (YD.)} = 3 \text{ FT.}$
 $1 \text{ MILE} = 5,280 \text{ FT.}$
VISUALIZE IT!

Yards

- Football field is 100 yards.

Foot

- A small ruler equals 1 foot

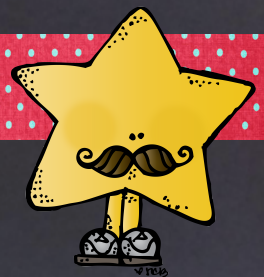
12 in.

Mile

- 66 Laps of a Swimming pool
- 20 minutes (about) to walk a mile

Visualize

CUSTOMARY MEASUREMENTS FOLDABLE



METRIC MEASUREMENTS LENGTH

$1 \text{ METER (M.)} = 1,000 \text{ MILLIMETERS (MM.)}$
 $1 \text{ METER (M.)} = 100 \text{ CENTIMETERS (CM.)}$
 $1 \text{ CENTIMETER (CM.)} = 10 \text{ MILLIMETERS (MM.)}$
 $1,000 \text{ METER (M.)} = 1 \text{ KILOMETER (KM.)}$
VISUALIZE IT!

CM

- Width of your finger nail

Meter

- Length of a Guitar
- 1 Full Step of a Grown Man
- Equals 40 in or 3.2 ft.
- Thickness of a credit card
- 10 sheets of paper

METRIC MEASUREMENTS WEIGHT

$1 \text{ GRAM (G.)} = 1,000 \text{ MILLIGRAM (MG.)}$
 $1,000 \text{ GRAMS (G.)} = 1 \text{ KILOGRAM (KG.)}$
VISUALIZE IT!

Kilogram

- Bag of rice
- Professional Camera
- Liter of Soda
- Cantalope

Gram

- Paperclip
- dime
- pen
- Hershey's Kiss

METRIC MEASUREMENTS CAPACITY

$1 \text{ LITER (L.)} = 1,000 \text{ MILLIMETERS (MM.)}$
VISUALIZE IT!

Liter

- liter of Soda
- liter of milk

Panicked Teacher

METRIC MEASUREMENTS FOLDABLE

CUSTOMARY MEASUREMENTS

FOLDABLE

NAME: _____

CUSTOMARY MEASUREMENTS

CAPACITY

____ CUP (C.) = ____ FLUID OUNCES (OZ.)
____ PINT (PT.) = ____ C.
____ QUART (QT.) = ____ PT.
____ GALLON (G.) = ____ Qt.
VISUALIZE IT!

CUSTOMARY MEASUREMENTS

WEIGHT

____ POUND (LB.) = ____ OUNCES (OZ.)
____ TON (T.) = ____ LB.
VISUALIZE IT!

CUSTOMARY MEASUREMENTS

LENGTH

____ FOOT (FT.) = ____ INCHES (IN.)
____ YARD (YD.) = ____ FT.
____ MILE = ____ FT.
VISUALIZE IT!

CUSTOMARY MEASUREMENTS

FOLDABLE

NAME: _____

CUSTOMARY MEASUREMENTS

CAPACITY

1 CUP (C.) = 8 FLUID OUNCES (OZ.)

1 PINT (PT.) = 2 C.

1 QUART (QT.) = 2 PT.

1 GALLON (G.) = 4 QT.

VISUALIZE IT!

CUSTOMARY MEASUREMENTS

WEIGHT

1 POUND (LB.) = 16 OUNCES (OZ.)

1 TON (T.) = 2,000 LB.

VISUALIZE IT!

CUSTOMARY MEASUREMENTS

LENGTH

1 FOOT (FT.) = 12 INCHES (IN.)

1 YARD (YD.) = 3 FT.

1 MILE = 5,280 FT.

VISUALIZE IT!

*Customary Measures
Length*

$$12 \text{ ft.} = \underline{\hspace{2cm}} \text{ in.}$$

$$\underline{\hspace{2cm}} \text{ yd.} = 18 \text{ ft.}$$

$$3 \text{ m.} = \underline{\hspace{2cm}} \text{ ft.}$$

$$5,280 \text{ yd.} = \underline{\hspace{2cm}} \text{ m.}$$

*Customary Measures
Length*

$$12 \text{ ft.} = \underline{\hspace{2cm}} \text{ in.}$$

$$\underline{\hspace{2cm}} \text{ yd.} = 18 \text{ ft.}$$

$$3 \text{ m.} = \underline{\hspace{2cm}} \text{ ft.}$$

$$5,280 \text{ yd.} = \underline{\hspace{2cm}} \text{ m.}$$

*Customary Measures
Weight*

$$24 \text{ lb.} = \underline{\hspace{2cm}} \text{ oz.}$$

$$\underline{\hspace{2cm}} \text{ T} = 5,000 \text{ lb.}$$

$$7 \text{ T} = \underline{\hspace{2cm}} \text{ oz.}$$

*Customary Measures
Weight*

$$24 \text{ lb.} = \underline{\hspace{2cm}} \text{ oz.}$$

$$\underline{\hspace{2cm}} \text{ T} = 5,000 \text{ lb.}$$

$$7 \text{ T} = \underline{\hspace{2cm}} \text{ oz.}$$

*Customary Measures
Capacity*

$$8 \text{ qt.} = \underline{\hspace{2cm}} \text{ G}$$

$$\underline{\hspace{2cm}} \text{ G} = 512 \text{ oz.}$$

$$\underline{\hspace{2cm}} \text{ pt.} = 32 \text{ oz.}$$

$$5 \text{ qt.} = \underline{\hspace{2cm}} \text{ c.}$$

*Customary Measures
Capacity*

$$8 \text{ qt.} = \underline{\hspace{2cm}} \text{ G}$$

$$\underline{\hspace{2cm}} \text{ G} = 512 \text{ oz.}$$

$$\underline{\hspace{2cm}} \text{ pt.} = 32 \text{ oz.}$$

$$5 \text{ qt.} = \underline{\hspace{2cm}} \text{ c.}$$

INSIDE OF FOLDABLE: COPY AND GIVE EACH STUDENT A HALF SHEET.

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Customary Measures

Customary Measures Length

$$12 \text{ ft.} = 144 \text{ in.}$$

$$6 \text{ yd.} = 18 \text{ ft.}$$

$$3 \text{ m.} = 15,840 \text{ ft.}$$

$$5,280 \text{ yd.} = 3 \text{ m.}$$

Customary Measures Length

$$12 \text{ ft.} = 144 \text{ in.}$$

$$6 \text{ yd.} = 18 \text{ ft.}$$

$$3 \text{ m.} = 15,840 \text{ ft.}$$

$$5,280 \text{ yd.} = 3 \text{ m.}$$

Customary Measures Weight

$$24 \text{ lb.} = 384 \text{ oz.}$$

$$2.5 \text{ T} = 5,000 \text{ lb.}$$

$$7 \text{ T} = 224,000 \text{ oz.}$$

Customary Measures Weight

$$24 \text{ lb.} = 384 \text{ oz.}$$

$$2.5 \text{ T} = 5,000 \text{ lb.}$$

$$7 \text{ T} = 224,000 \text{ oz.}$$

Customary Measures Capacity

$$8 \text{ qt.} = 2 \text{ G}$$

$$4 \text{ G} = 512 \text{ oz.}$$

$$2 \text{ pt.} = 32 \text{ oz.}$$

$$5 \text{ qt.} = 20 \text{ c.}$$

Customary Measures Capacity

$$8 \text{ qt.} = 2 \text{ G}$$

$$4 \text{ G} = 512 \text{ oz.}$$

$$2 \text{ pt.} = 32 \text{ oz.}$$

$$5 \text{ qt.} = 20 \text{ c.}$$

Panicked Teacher

Customary Measures

METRIC MEASUREMENTS

FOLDABLE

NAME: _____

METRIC MEASUREMENTS

LENGTH

____ METER (M.) = ____ MILLIMETERS (MM.)
 ____ METER (M.) = ____ CENTIMETERS (CM.)
 ____ CENTIMETER (CM.) = ____ MILLIMETERS (MM.)
 ____ METER (M.) = ____ KILOMETER (KM.)

VISUALIZE IT!

METRIC MEASUREMENTS

WEIGHT

____ GRAM (G.) = ____ MILLIGRAM (MG.)
 ____ GRAMS (G.) = ____ KILOGRAM (KG.)
 VISUALIZE IT!

METRIC MEASUREMENTS

CAPACITY

____ LITER (L.) = ____ MILLIMETERS (MM.)
 VISUALIZE IT!

METRIC MEASUREMENTS

FOLDABLE

NAME: _____

METRIC MEASUREMENTS

LENGTH

1 METER (M.) = 1,000 MILLIMETERS (MM.)

1 METER (M.) = 100 CENTIMETERS (CM.)

1 CENTIMETER (CM.) = 10 MILLIMETERS (MM.)

1,000 METER (M.) = 1 KILOMETER (KM.)

VISUALIZE IT!

METRIC MEASUREMENTS

WEIGHT

1 GRAM (G.) = 1,000 MILLIGRAM (MG.)

1,000 GRAMS (G.) = 1 KILOGRAM (KG.)

VISUALIZE IT!

METRIC MEASUREMENTS

CAPACITY

1 LITER (L.) = 1,000 MILLILITERS (ML.)

*Metric Measures
Length*

$$12 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$$

$$\underline{\hspace{2cm}} \text{ mm} = 6,000 \text{ cm}$$

$$500,000 \text{ cm} = \underline{\hspace{2cm}} \text{ km}$$

$$2 \text{ km} = \underline{\hspace{2cm}} \text{ cm}$$

*Metric Measures
Length*

$$12 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$$

$$\underline{\hspace{2cm}} \text{ mm} = 6,000 \text{ cm}$$

$$500,000 \text{ cm} = \underline{\hspace{2cm}} \text{ km}$$

$$2 \text{ km} = \underline{\hspace{2cm}} \text{ cm}$$

*Metric Measures
Weight/Mass*

$$35 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$$

$$50 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

$$8,000 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$$

$$\underline{\hspace{2cm}} \text{ kg} = 40,000,000 \text{ mg}$$

*Metric Measures
Weight/Mass*

$$35 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$$

$$50 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

$$8,000 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$$

$$\underline{\hspace{2cm}} \text{ kg} = 40,000,000 \text{ mg}$$

*Metric Measures
Capacity*

$$8 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$$

$$55,000 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$$

$$\underline{\hspace{2cm}} \text{ L} = 3,200 \text{ mL}$$

$$32.45 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$$

*Metric Measures
Capacity*

$$8 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$$

$$55,000 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$$

$$\underline{\hspace{2cm}} \text{ L} = 3,200 \text{ mL}$$

$$32.45 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$$

INSIDE OF FOLDABLE: COPY AND GIVE EACH STUDENT A HALF SHEET.

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Metric Measures

Metric Measures Length

$$12 \text{ m} = 1,200 \text{ cm}$$

$$60,000 \text{ mm} = 6,000 \text{ cm}$$

$$500,000 \text{ cm} = 5 \text{ km}$$

$$2 \text{ km} = 200,000 \text{ cm}$$

Metric Measures Length

$$12 \text{ m} = 1,200 \text{ cm}$$

$$60,000 \text{ mm} = 6,000 \text{ cm}$$

$$500,000 \text{ cm} = 5 \text{ km}$$

$$2 \text{ km} = 200,000 \text{ cm}$$

Metric Measures Weight/Mass

$$35 \text{ g} = 35,000 \text{ mg}$$

$$50 \text{ kg} = 50,000 \text{ g}$$

$$8,000 \text{ g} = 8 \text{ kg}$$

$$40 \text{ kg} = 40,000,000 \text{ mg}$$

Metric Measures Weight/Mass

$$35 \text{ g} = 35,000 \text{ mg}$$

$$50 \text{ kg} = 50,000 \text{ g}$$

$$8,000 \text{ g} = 8 \text{ kg}$$

$$40 \text{ kg} = 40,000,000 \text{ mg}$$

Metric Measures Capacity

$$8 \text{ L} = 8,000 \text{ mL}$$

$$55,000 \text{ mL} = 55 \text{ L}$$

$$3.2 \text{ L} = 3,200 \text{ mL}$$

$$32.45 \text{ mL} = .0325 \text{ L}$$

Metric Measures Capacity

$$8 \text{ L} = 8,000 \text{ mL}$$

$$55,000 \text{ mL} = 55 \text{ L}$$

$$3.2 \text{ L} = 3,200 \text{ mL}$$

$$32.45 \text{ mL} = .0325 \text{ L}$$

Metric Measures