FMPC10 Updated June 2018

Unit Conversions (as they may appear on an exam formula sheet)

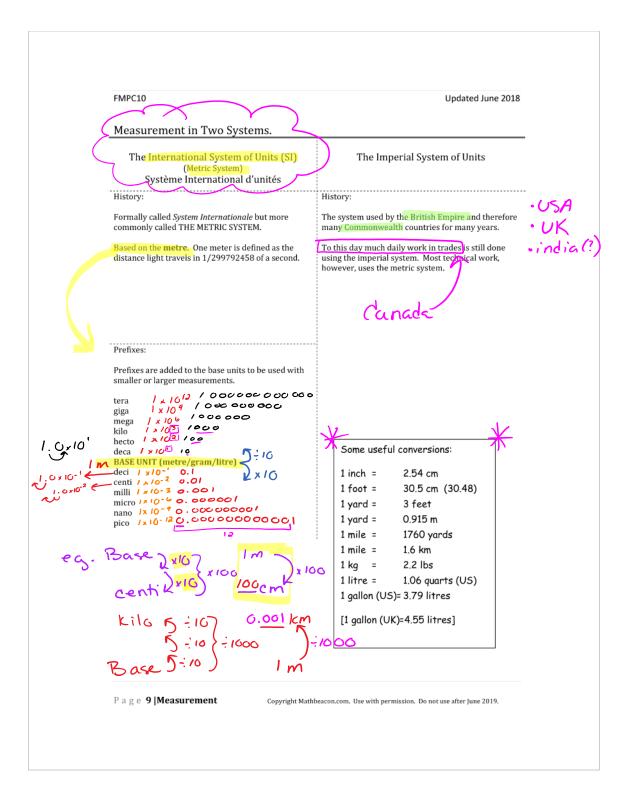
	Common Imperial	Imperial and Metric	Metric
Length	1 mile = 1760 yards	1 mile ≈ 1.609 km	$1 \ km = 1000 \ m$
	1 mile = 5280 feet	1 yard ≈ 0.9144 m	1 m = 100 cm
	1 yard = 3 feet	1 foot ≈ 0.3048 m	1 cm = 10 mm
	1 yard = 36 inches	1 foot ≈ 30.48 cm	
	1 foot = 12 inches	1 inch ≈ 2.54 cm	
Mass	1 ton = 2000 pounds	$1 pound \approx 0.454 kg$	1 t = 1000 kg
(Weight)	1 pound = 16 ounces	1 ounce ≈ 28.35 g	1 kg = 1000 g
(, ,			
Common	mile = mi		kilometre = km
Abbreviations	yard = yd		metre = m
	ton = ton		centimetre = cm
	$feet = ft \ or '$		millimetre = mm
	inch = in or "		tonne (metric ton) = t
	pound = lb		gram = g
	ounce = oz		

Formula

Triangles	Lines	
Trigonometry: $sinA = \frac{opposite}{hypotenuse}$ B	The equation of a line: Slope-intercept form: $y = mx + b$ Standard Form:	
$cosA = \frac{adjacent}{hypotenuse}$ a c C A	$Ax + By + C = 0$ Point-slope form: $y - y_I = m(x - x_I)$	
$tanA = \frac{opposite}{adjacent}$ C b	Slope formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$	
$a^2 + b^2 = c^2$		

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FMPC10 Updated June 2018 The Imperial System of Units REPRESENTATIVE EXAMPLE or REFERENT (a comparison you could use) QUANTITY MEASURED (circle one) 3 EXAMPLES OF OBJECTS YOU WOULD MEASURE USING THIS UNIT UNIT 1. height MASS? 2. sandwiches (subhay)
3. wood 2x4=2"by4" INCH VOLUME? (in DISTANCE? 1. height 2. pool tength 3. depth (water) MASS? FOOT VOLUME? DISTANCE? 1. golf MASS? YARD VOLUME?

MASS?
VOLUME?

VOLUME?

DISTANCE?

MASS?

VOLUME?

MASS?

VOLUME?

DISTANCE?

MASS?

The large plastic jug of milk at the grocery store.

The large plastic jug of milk at the grocery store.

NASS?

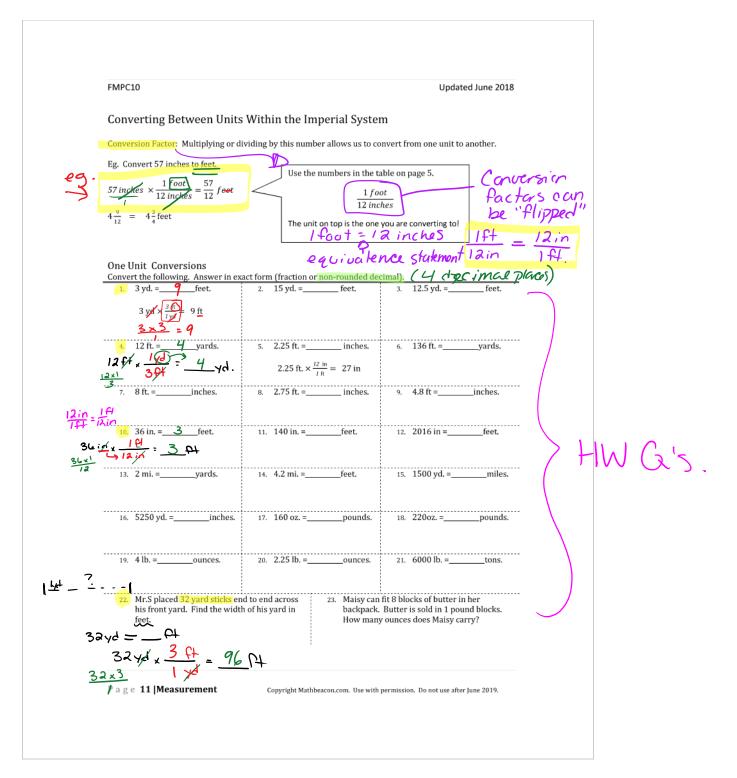
The large plastic jug of milk at the grocery store.

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DISTANCE?

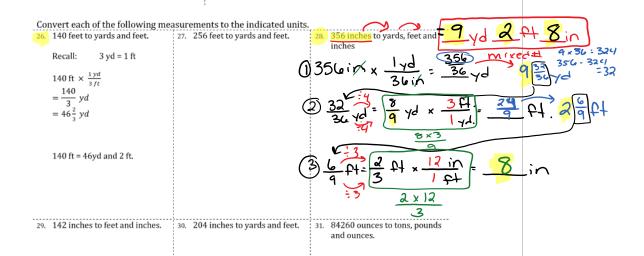
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3. gas



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- 24. Auntie Dee is making a frame for a photograph. The outer dimensions are 3 ft. by 5 ft. How many inches of frame must she purchase?
- 25. Mr. J wants to update his living room with crown moulding. The room is rectangular and measures 180 in. by 260 in. Moulding is sold by the foot and costs \$2.19 per linear foot. What is the cost of moulding required (not including any taxes)?



Home work #1-31 (p.11+12)

Quiz Thurs - rounding
- sci. notation

ions < imperial

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