7/10

Mariesol Maxwell
Katherine Meaux
Juan Cotto
Marquis Lockett
-Thursday Lab

Convert

1. 1968 oz → lb.
2. 105.8°F → K
3. 13.78 yd → km
4. 3.42×10^{-4} L → mL
5. 76cm → in.

Answers

1. $1968\ oz \times \frac{1\ lb}{16\ oz} =$ ~~123 lbs~~ 1.230×10^{2} or 123.0 lbs
2. $5/9\ (105.8-32) = 41^{\circ}C \rightarrow 41^{\circ}C + 273 = 314\ K$
3. $13.78\ yd \times \frac{1\ m}{1.0936\ yd} \times \frac{1\ km}{1000\ m} =$ ~~.0126 km~~ or $1.260 \times 10^{-2}\ km$
4. $3.42 \times 10^{-4}\ L \times \frac{1000\ mL}{1\ L} = .342\ mL$
5. $76\ cm \times \frac{0.39370\ in}{1\ cm} = 30\ in.$

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Ashvini Ramsundar
Sandhya Valand
Frank Alfaro
Jessica Permaul

Lab: Thursdays 5/17/11

1. 2.25mi → km
2. 5.6L → gal
3. 3m → yd
4. 4mi → ft
5. 5.24×10^5 m → yd

1. $2.25\text{mi} \times \frac{1.6093\text{km}}{1\text{mi}} = 3.62\text{km}$ ~~$\times \frac{0.62137\text{mi}}{1\text{km}} = 3.62\text{km}$~~

2. $5.6\text{L} \times \frac{1\text{gal}}{3.7854\text{L}} = $ ~~1.4794 gal~~ 1.5 gal

3. $3\text{m} \times \frac{1.0936\text{yd}}{1\text{m}} = $ ~~3.2808 yd~~ 3 yd

4. $4\text{mi} \times \frac{5280\text{ft}}{1\text{mi}} = $ ~~21120 ft~~ 2×10^4 ft

5. $5.24 \times 10^5\text{m} \times \frac{1.0936\text{yd}}{1\text{m}} = $ ~~5.7304×10^5 yd~~ 5.73×10^5 yd

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Group Quiz

Mayra Diaz
Brandon Mathis
Brian Martin
*TUESDAY LAB.

- **convert**

1- 23.9 cm ⟶ pm.

2- 300 oz ⟶ Lbs

3- 945 K ⟶ °F

4- 55.3×10^5 L ⟶ qt

5- 34.26 yd ⟶ km

- **answers**

1- 2.39×10^{11} pm $23.9\text{ cm} \times \frac{1 \times 10^{12}\text{ pm}}{100\text{ cm}}$

2- 18.8 Lb $300\text{ oz} \times \frac{1\text{ lb}}{16\text{ oz}} \approx 18.75$ → 18.8

3- 1240 °F $945\text{K} = {}^\circ\text{C} + 273.15 = 671.85^\circ\text{C}$
$9/5(671.85) + 32 \approx 1241.33 = 1240$

4- 5.84×10^6 qt $55.3 \times 10^5\text{ L} \times \frac{1.0567\text{ qt}}{1\text{ L}} \approx 5.84355$ → 5.84

5- .03133 km $34.26\text{ yd} \times \frac{3\text{ ft}}{1\text{ yd}} = 102.78\text{ ft} \times \frac{1\text{ mi}}{5280\text{ ft}}$

$.019466 \times \frac{1.6093\text{ km}}{1\text{ mi}} \approx .031327$ → .03133

$34.26\text{ yd} \times \frac{1\text{ m}}{1.0936\text{ yd}} \times \frac{1\text{ km}}{1000\text{ m}} = .03133\text{ km}$

CHALE FOSTER
JAMIE PEPE
WILLIE J MADDOX III
SAKI FADEN

TUESDAY LAB*

9/10

1. 356 oz → g
2. 45.89 gal → mL
3. 58.2 dm → cm
4. 482 nm → km
5. 1.43×10^{-6} L → mL

1. $356\,\text{oz} \times \frac{453.59\,\text{g}}{16\,\text{oz}} = ~~1.01 \times 10^{4}\,\text{g}~~$ $1.61 \times 10^{5}\,\text{g}$

2. $45.89\,\text{gal} \times \frac{3.7854\,\text{L}}{1\,\text{gal}} \times \frac{1000\,\text{mL}}{1\,\text{L}} = 1.737 \times 10^{5}\,\text{mL}$

3. $58.2\,\text{dm} \times \frac{1\,\text{m}}{10\,\text{dm}} \times \frac{100\,\text{cm}}{1\,\text{m}} = 582\,\text{cm}$

4. $482\,\text{nm} \times \frac{1\,\text{m}}{1 \times 10^{9}\,\text{nm}} \times \frac{1\,\text{km}}{1000\,\text{m}} = 4.82 \times 10^{-10}\,\text{Km}$

5. $1.43 \times 10^{-6}\,\text{L} \times \frac{1000\,\text{mL}}{1\,\text{L}} = 1.43 \times 10^{-3}\,\text{mL}$

10/10 Tuesday

convert

1) 4.50×10^{-2} km → m $4.50 \times 10^{-2}\,\text{km} \times \frac{1000\,\text{m}}{1\,\text{km}} =$ 45.0m

2) 350mi → yd $350\,\text{mi} \times \frac{1\,\text{km}}{.6237\,\text{mi}} \times \frac{1000\,\text{m}}{1\,\text{km}} \times \frac{1.0936\,\text{yd}}{1\,\text{m}} = 6.16 \times 10^5\,\text{yd}$

3) 735.3 pm → nm $735.3\,\text{pm} \times \frac{1 \times 10^{9}\,\text{nm}}{1 \times 10^{12}\,\text{pm}} = .7353\,\text{nm}$

4) 74.67 yd → km $74.67\,\text{yd} \times \frac{1\,\text{m}}{1.0936\,\text{yd}} \times \frac{1\,\text{km}}{1000\,\text{m}} = .06828\,\text{km}$

5) 7.0×10^3 L → qt $7.0 \times 10^3\,\text{L} \times \frac{1.0567\,\text{qt}}{1\,\text{L}} = 7.4 \times 10^3\,\text{qt}$

answers:

1) 45.0m

2) 6.16×10^5 yd

3) .7353nm

4) .06828km

5) 7.4×10^3 qt.

Tuesday 10/10

Group Members

- Francheska Vazquez
- GEORGETTE GARSIDE
- Oliver Ramos
- ALEXUS THOMAS

Convert	Answers
① 345 mi → yd	① 6.07×10^5 yd
② 2.3×10^5 L → qt	② 2.4×10^5 qt
③ 42.82 yd → km	③ 3.915×10^{-2} Km
④ 300kg → lbs.	④ 661 lb
⑤ 50 Km/hr → mi/hr	⑤ 31 mi/hr

ANSWERS:

① 6.07×10^5 yd $\quad 345\,mi \times \frac{1.6093\,km}{1\,mi} \times \frac{1000\,m}{1\,km} \times \frac{1.0936\,yd}{1\,m}$

② 2.4×10^5 qt $\quad 2.3 \times 10^5\,L \rightarrow \frac{1.0567\,qt}{1\,L} = 2.4 \times 10^5$

③ 3.915×10^{-2} km $\quad 42.82\,yd \times \frac{1\,m}{1.0936\,yd} \times \frac{1\,km}{1000\,m} = 3.915 \times 10^{-2}\,km$

④ ~~330~~ 661 lb. $\quad 300kg \times \frac{2.2046\,lbs}{1\,kg} = 661\,lb$

⑤ 31 mi/hr $\quad 50\,Km/hr \times \frac{0.62137\,mi}{1\,Km} = 31\,mi/hr$

R10 am

9/10 Thursday

Megan Donegan
Melissa States
David Cohen
Matt Barkevich

1) 13 dm → pm

2) 49 mi → yd

3) 64×10^{-3} lb → g

4) 8.49×10^{5} oz → kg

5) 3.6×10^{7} cm → mi

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1) $13\ \text{dm} \times \frac{1 \times 10^{12}\ \text{pm}}{10\ \text{dm}} = \boxed{1.3 \times 10^{12}\ \text{pm}}$

2) $49\ \text{mi} \times \frac{1.6093\ \text{km}}{1\ \text{mi}} \times \frac{1000\ \text{m}}{1\ \text{km}} \times \frac{1.0936\ \text{yd}}{1\ \text{m}} =$

$8623.6 = \boxed{8.6 \times 10^{4}\ \text{yd}}$

3) $64 \times 10^{-3}\ \text{lb} \times \frac{453.59\ \text{g}}{1\ \text{lb}} = \boxed{29\ \text{g}}$

4) $8.49 \times 10^{5}\ \text{oz} \times \frac{1\ \text{lb}}{16\ \text{oz}} \times \frac{1\ \text{kg}}{2.2046\ \text{lb}} = \frac{849000}{35.2736} =$

$24068.99211 = \boxed{2.41 \times 10^{4}\ \text{kg}}$

5) $3.6 \times 10^{7}\ \text{cm} \times \frac{1\ \text{in}}{2.54\ \text{cm}} \times \frac{1\ \text{ft}}{12\ \text{in}} \times \frac{1\ \text{mi}}{5{,}280\ \text{ft}} = \frac{36000000}{160934.4} =$

$\boxed{2.2 \times 10^{2}\ \text{mi}}$

10/10

Thursday Lab

Nicholas Martinez
Erica Alcala
Rose Tran
Vanessa Valdes

① 46.29 mi → km

② 35.69 dm → cm

③ 536 mm → m

④ 10 lb → g

⑤ 362 cm → pm

① 74.49 km $46.29 \text{ mi} \times \frac{1.6093 \text{ km}}{1 \text{ mi}} = \boxed{74.49 \text{ km}}$

② 356.9 cm $35.69 \text{ dm} \times \frac{100 \text{ cm}}{10 \text{ dm}} = \boxed{356.9 \text{ cm}}$

③ .536 m $536 \text{ mm} \times \frac{1 \text{ m}}{1000 \text{ mm}} = \boxed{.536 \text{ m}}$

④ 4.5×10^3 g $10 \text{ lb} \times \frac{453.59 \text{ g}}{1 \text{ lb}} = 4539 \text{ g} = \boxed{4.5 \times 10^3 \text{ g}}$

⑤ 3.62×10^{12} pm $362 \text{ cm} \times \frac{1 \times 10^{12} \text{ pm}}{100 \text{ cm}} = \boxed{3.62 \times 10^{12} \text{ pm}}$

8/10

Jessica Hsieh
Victor Chongsan
Stefanie Morrison
Krizia Arredondo

Convert

1) 20.37 dm → ? in

2) 127 Km → ? m

3) 56.9 Kg → ? oz

4) 135 cm^3 → ? L

5) What is the ~~volume of~~ a piece of pie if the ~~density~~ is 6.5 g/mL and the mass is 120.5 g?

Answers

1. 80.20 in
2. 1.27×10^5 m
3. 2.01×10^3 oz
4. 0.135 L
5. ~~19 mL~~

$$20.37\,dm \times \frac{100\,cm}{10\,dm} \times \frac{.39370\,in}{1\,cm} = 80.20\,in$$

$$127\,km \times \frac{1000\,m}{1\,km} = 1.27 \times 10^5\,m$$

$$56.9\,kg \times \frac{1000\,g}{1\,kg} \times \frac{16\,oz}{453.59\,g} = 2.01 \times 10^3\,oz$$

$$135\,cm^3 \times \frac{1\,mL}{1\,cm^3} \times \frac{1\,L}{1000\,mL} = .135\,L$$

9/10 Tuesday

Jameson Headley
Krystyna Kasowski
James Fredrick
Christena Bryant

Conversion

1. 48 in. → ? ft
2. 120 km → mi.
3. 2.53 mi → cm
4. 150 lb. → kg
5. 30°c → °F

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1. 4ft

$$48\text{in} \times \frac{1\text{ft}}{12\text{in}} = 4\text{ft} \quad 4.0\text{ft}$$

2. 74.6 mi

$$\frac{120\text{km} \times 0.62137\text{mi}}{1\text{km}} = 74.6\text{ mi}$$

3. 4.07×10^5 cm

$$\frac{2.53\text{mi} \times 1.6093\text{km}}{1\text{mi.}} \times \frac{1000\text{m}}{1\text{km}} \times \frac{100\text{cm}}{1\text{m}} = 4.07 \times 10^5$$

4. 68.0 kg

$$\frac{150\text{lb.} \times 1\text{kg}}{2.2046\text{lb.}} = 68.0\text{kg}$$

5. 86 °F

$$F = \frac{9}{5}(°C) + 32$$
$$F = \frac{9}{5}(30) + 32$$
$$F = 86\ °F$$

Brooke Neilson

Kevin Perez

9/10

Tuesday Lab.

Convert

1) 3.671 mi → km
2) 75 kg → lbs
3) 97°F → °C
4) 160 cm → in
5) 10 m → Yd

Solutions Key

1) $3.671\,\text{mi} \times \frac{1\,\text{km}}{0.62137\,\text{mi}} = \boxed{5.91\,\text{km}}$ 5.908 km

2) $75\,\text{kg} \times \frac{10^3\,\text{g}}{1\,\text{kg}} \times \frac{2.2046\,\text{lb}}{10^3\,\text{g}}$ $\boxed{165.345\,\text{lb}}$ $\boxed{1.7 \times 10^2}$

3) $97^\circ\text{F} = \boxed{36.11^\circ\text{C}}$

4) $160\,\text{cm} \times \frac{0.39370\,\text{in}}{1\,\text{cm}} = \boxed{63.0\,\text{in}}$

5) $10\,\text{m} \times \frac{1.0936\,\text{yd}}{1\,\text{m}} = \boxed{11\,\text{yd}}$