To practice for the quiz on Thursday, please solve each problem by using the *conversion factor method*, like we did in class the other days. If you have any trouble, get a friend to help!

I filled out the first box myself to show you how to use the boxes.

1 meter = 3.28 feet

1 foot = 12 inches

1 mile = 1.61 kilometers

1 kilo meters = 1000 meter

1. EXAMPLE Convert 5 feet to meters: **EXAMPLE**:

Convert from:	То:	Conversion Factor:
FEET	METERS	1 meter = 3.28 feet

$$\frac{5 \text{ feet}}{1} \left(\frac{1 \text{ meter}}{3.28 \text{ feet}} \right) = \frac{5}{3.28} \text{ meters} = 1.52 \text{ meters}$$

Answer in a complete sentence with unit:

 $\boldsymbol{5}$ feet is equal to $\boldsymbol{1.52}$ meters.

2. Convert 9 feet to meters:

Convert from:	То:	Conversion Factor:
Answer in a complet	te sentence <i>with i</i>	ınıt:

3. Convert 300 feet to meters:			
Convert from:	To:	Conversion Factor:	
3011, 61 611 6111	10.		

4. Convert 3 meters to feet:

Answer in a complete sentence with unit:

4. Convert 3 meters	to reet:		
Convert from:	To:	Conversion Factor:	
Answer in a complete sentence with unit:			

5. Convert 100 meters to feet:

Convert from:	To:	Conversion Factor:
Convert from:	10:	Conversion Factor:
Answer in a complet	te sentence with i	unit:
P		· · · ·

7. Convert 6 miles to kilometers: Convert from: To: Conversion Factor: Answer in a complete sentence with unit: 8. The United States is about 3000 miles across. How many kilometers is the	Convert from:	To:	Conversion Factor:	
7. Convert 6 miles to kilometers: Convert from: To: Conversion Factor: Answer in a complete sentence with unit: 8. The United States is about 3000 miles across. How many kilometers is the				
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	Answer in a comp	lete sentence <i>w</i>		
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	8. The United State	es is about 300	0 miles across. How many kilome	eters is this
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	8. The United State	es is about 300	0 miles across. How many kilome	eters is this

Answer in a complete sentence with unit:

Part 2: Two-Step Conversions

Convert from:	To:	Conversion Factors:	
Answer in a comp	olete sentence	with unit:	
10. Convert 4218	8 feet to kilom	eters:	
Convert from:	To:	Conversion Factors:	

Convert from:	To:	Conversion Factor:
Answer in a complet	te sentence <i>with</i> i	unit:

12. Convert 24 inches to meters

12. Convert 24 inches to meters:			
Convert from:	To:	Conversion Factor:	
Answer in a complete sentence with unit:			

13. Convert 26 inches to meters

Convert from:	To:	Conversion Factor:
American in a compulat	to conton co with	unit.
Answer in a complete sentence with unit:		

14. This room is abo	out 19 meters lon	g. Convert 19 meters to miles.	
Convert from:	To:	Conversion Factor:	
Answer in a complet	to contonce with i	unit.	
Allswei III a complet	e semence with t	anit.	
Part 3: Three Step	Conversions		
15. Convert 20 inche			
Convert from:	To:	Conversion Factor:	
Answer in a complet	te sentence with i	 unit::	
Answer in a complete sentence with unit:			
16. Convert 2 kilom	eters to inches		
Convert from:	To:	Conversion Factor:	
Answer in a complet	te sentence with a	 unit:	
	,o deliterio with t		

Part C: Moles and Atoms:

1 mole = 6.02×10^{23} atoms

When solving these problems, continue to *always use* the conversion factor method!

17. Convert 3 moles to atoms.

Convert from:	То:	Conversion Factor:		
Answer in a complete sentence with unit:				

18. Convert 12 moles to atoms.

10. Convert 12 moles to atoms.				
Convert from:	To:	Conversion Factor:		
Convert in oni.	10.	Gonversion ractor.		
Answer in a complete sentence with unit:				
•				

19. Convert 8.0×10^{24} atoms to m	noles
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C C	т.	C	
Convert from:	To:	Conversion Factor:	
	1		
Anguar in a complete contence with unit			
Answer in a complete sentence with unit:			

20. Convert 2.0×10^{21} atoms to moles.

20. Convert 2.0 x 10 ⁻¹ atoms to moles.				
Convert from:	To:	Conversion Factor:		
3011, 01 0 11 0111	10.			
An array in a secondate content of with write				
Answer in a complete sentence with unit:				

Part D: Molar Mass

- **21.** What is the molar mass of Titanium?
- **22.** What is the molar mass of Thorium?
- 23. What element has a molar mass of very close to 14?
- **24.** What element has a molar mass of very close to 1?