

GRADE 10 ESSENTIAL UNIT C – MEASUREMENT CONVERT IMPERIAL ↔ METRIC

Name:	_
Date:	-

Show work. (always)

Use the proportion method, unless you prefer the factor method. Use a calculator for sure. Round final answers to two decimal places if necessary.

Use conversion tables you were supplied in notes or separately. Some two-step conversions may be necessary (depending on your table of conversions)

- 1. Convert the following:
 - a) 750 mL to L

d) 5 ImpGal to L

b) 0.35 kg to g

e) 66 531 ft to miles

c) 77 in to cm

f) 3 yd 2 in to in



2.	Convert each of the following:	
	a) 1.5 miles into feet	c) 21 545 mm into m
	b) 3.1 km into m	d) 450" into yards
3.	Convert each of the following: a) 2.2 km into miles	c) 25 lbs into kg
	b) 56 feet into metres	d) 41" into cm

4. A newborn baby boy weighs **3.5 kg**. What is his mass in **pounds** and ounces? Explain how you can use mental math to determine if your answer is reasonable.



- 5. The summit of Mount Everest is 8,840 m elevation above sea level.
 - a. How many miles is this?



b. How many feet?

6. The owner's manual for a car states that the oil should be changed every 8,000 km. How many miles is that? Try some mental math to determine if your answer is reasonable.



7. **Bonus**: You are listening to an American radio station on your way to Fargo, ND for a recreational math conference (some people do math for fun!). The announcer states that the temperature in Fargo is **18°F**. What is this temperature in Celsius [°C]?