

Name: _____

Unit 2 – Measurement

2.3 – Imperial Measurement System

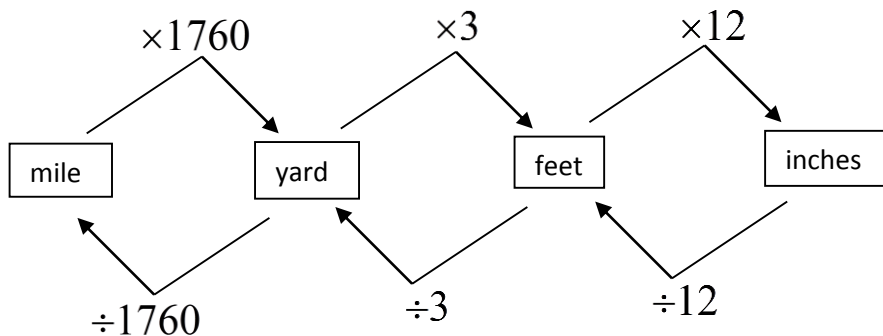
- the imperial system is a measurement system that is still in use in industry and the trades.
- as compared to the metric system, there is no consistent multiple between the units.
- the relationships between common imperial units are given below.

a) 1 foot (ft) = _____ inches (in)

b) 1 yard (yd) = _____ feet (ft) = _____ inches (in)

c) 1 mile (mi) = _____ yards (yd) = _____ feet (ft)

- the above relationships can be summarized in the diagram below

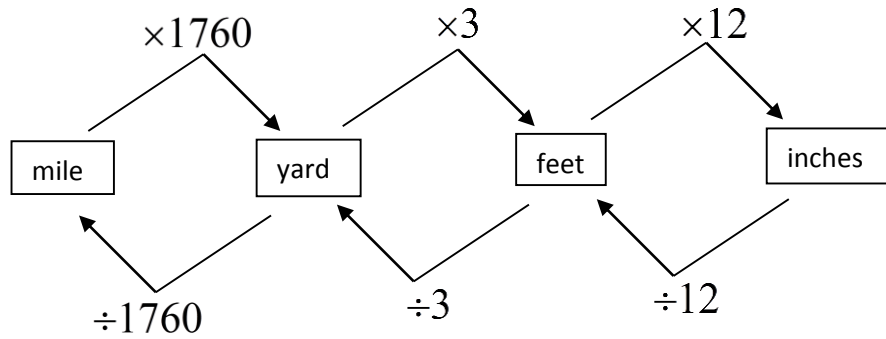


- when converting between imperial units, multiply or divide by the conversion factor
- complete the following table to indicate the method of conversion between imperial units

Starting unit	Finishing unit	Conversion factor
mi	yd	
mi	ft	
mi	in	
yd	mi	
yd	ft	
yd	in	
ft	mi	
ft	yd	
ft	in	
in	mi	
in	yd	
in	ft	

- we should _____ when converting from a **large** unit to a **smaller** unit
- we should _____ when converting from a **small** unit to a **larger** unit

e.g. Indicate the conversions factors used in each question. Leave all answers in to the nearest **tenth** (when necessary).



1) 36 ft = _____ yd

4) 42 in = _____ ft

2) 2 mi = _____ ft

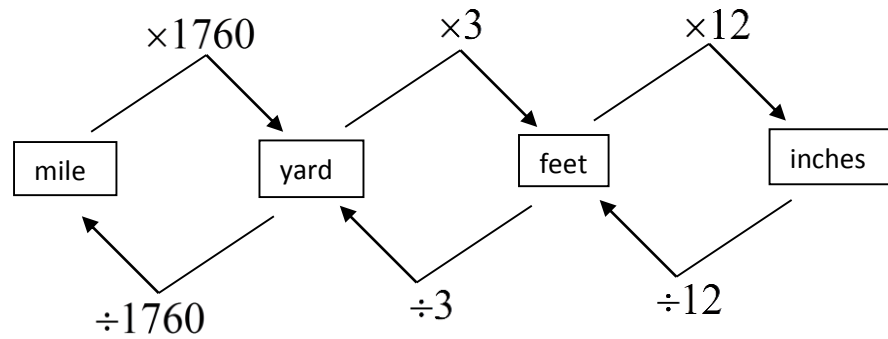
5) 1200 ft = _____ mi

3) 5 yd = _____ in

6) 312 000 in = _____ mi

Assignment

Convert the following imperial measurements. Leave answers in **TWO** decimal when necessary.



1. 1.7 miles = _____ feet

2. 812 inches = _____ yards

3. 38.7 yards = _____ feet

4. 1023 feet = _____ inches

5. 1018.7 yards = _____ miles

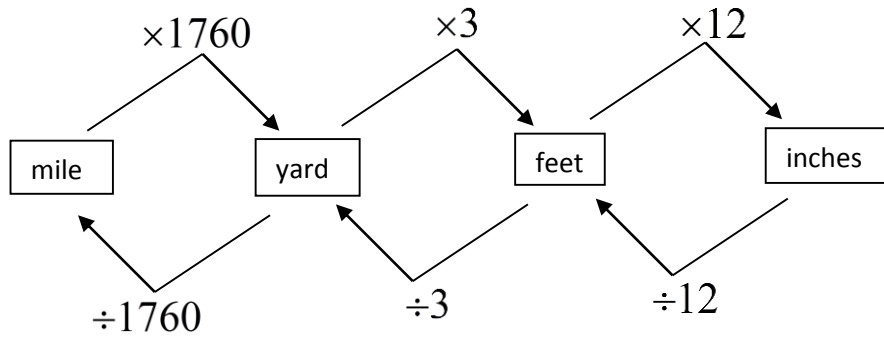
6. 507 inches = _____ feet

7. 10 500 feet = _____ miles

8. 8000 miles = _____ inches

9. 54.7 feet = _____ yards

10. 11.2 yards = _____ inches



11. 4.5 miles = _____ yards

12. 8358 inches = _____ miles

13. 14.7 yards = _____ feet

14. 4908 inches = _____ yards

15. 5.3 miles = _____ inches

16. 4200 feet = _____ yards

17. 4.32 miles = _____ feet

18. 105 000 inches = _____ miles

19. 47.9 feet = _____ inches

20. 3500 yards = _____ miles

21. 50 000 feet = _____ miles

22. 256 inches = _____ feet

23. 5000 yards = _____ inches

24. 19.7 miles = _____ yards