

HONORS MATH PRACTICE (dim.anal. & metrics)

These problems are optional and are designed to give you more practice with conversions, if needed. Remember to use ratios when doing conversions (such as #8-13) and cancel your units. Answers are provided on the back of this page, but don't look until you've tried to answer the questions on your own!!

1. 275 mm = _____cm
2. 1000 L = _____ kL
3. 1000 mL = _____L
4. 0.075 m = _____cm
5. 15 g = _____mg
6. 7000 cm = _____hm
7. 8 daL = _____dL

8. How many inches are in 2 miles?
9. How many seconds are in 4 days?
10. How many inches are in 2.5 yards? (1 yard = 3 feet)
11. How many miles in 12 km?
12. How many hm in 100 ft?
13. Convert 65mph to km/s. (mph = miles/hour)

Convert to scientific notation:

14. 0.0008
15. 1,000,000
16. 0.0025

Convert to standard notation:

17. 1.5×10^3
18. 1.5×10^{-3}
19. 3.75×10^{-2}
20. 2.2×10^5

Answers:

1. 27.5 cm
2. 1 kL
3. 1 L
4. 7.5 cm
5. 15,000 mg
6. 0.7 hm
7. 800 dL
8. 126,720 in
9. 345,600 sec
10. 90 in
11. 7.5 miles
12. 3048 hm
13. 0.029 km/s
14. 8×10^{-4}
15. 1×10^6
16. 2.5×10^{-3}
17. 1500
18. 0.0015
19. 0.0375
20. 220,000