

Review Problems

Show your work!

Use conversion factors to convert the following measurements.

1. 58 mi = _____ in

2. 24 ml = _____ qt

3. 500,000cm= _____ mi

4. 300 cu ft= _____ cu m

Compare the following using <, >, or =.

5. 5,500mm _____ 55dkm

6. 400L _____ 40,000kl

7. 30,000cg _____ 3,000,000g

8. 6,000,000mm _____ 60km

9. 7,500L _____ 6,400hl

10. 500,000,000ms _____ 50dks

Convert the following from scientific to standard notation.

11. $5 \times 10^5 =$

12. $3.459 \times 10^{-8} =$

13. $7.35 \times 10^{-4} =$

14. $9.2745 \times 10^7 =$

15. $4.2745 \times 10^3 =$

Convert the following from standard to scientific notation.

16. 3,890,000=

17. 392,000=

18. 345=

19. 0.7452=

20. 0.0030454

21. Write, in your own words, what each step of the Engineering Design Process is used for.

22. Write a scenario that is ethically wrong for an engineer, where the engineer does the right thing.
23. Write a scenario that is ethically wrong for an engineer, where the engineer does the wrong thing.
24. Review the types of engineer fields and pick three to define in your own terms.
25. On a piece of graph paper, draw a line graph of the maximum amount of precipitation for each day in the last week. Remember your y-axis scale needs to be adjusted to fit the data.