

Complete the rate tables below. Then answer the questions.

Example A company can produce 800 widgets per day.

widgets	800	1,600	2,400	3,200	4,000
days	1	2	3	4	5

- How many widgets can the factory produce in $3\frac{1}{2}$ days? _____
- How many 5-day weeks will it take to produce 16,000 widgets? _____

On the highway, Alec's car gets 28 miles per gallon of gasoline.

3.

miles	28					...	
gallons	1	2	3	4	5	...	12

- His parent's house is 100 miles away by the nearest highway. How many gallons of gasoline will Alec need to get there? _____
- The gas tank holds 12 gallons. How many times will Alec need to stop for gas on a road trip of 340 miles? _____

In the city, Alec's car gets 23 miles per gallon of gasoline.

6.

miles	23					...	
gallons	1	2	3	4	5	...	12

- How far can the car go in the city on 4.25 gallons? _____
- Alec drives about 425 miles in the city each month. How many gallons does he need to buy in a month? _____



Find the landmarks for the following set of numbers:

4, 3, 6, 2.5, 3, 2.25, 1.5, 7, 4, 6.75

- | | |
|------------------|-------------------|
| 9. maximum _____ | 10. minimum _____ |
| 11. range _____ | 12. median _____ |
| 13. mean _____ | 14. mode _____ |

Solve.

- | | |
|-----------------------------------|-------------------------------------|
| 15. $9 * 10^{-2} =$ _____ | 16. $50 * 10^{\square} = 0.5$ |
| 17. $54 = 10^{\square} * 0.054$ | 18. $42,000 = 7 * 6 * 10^{\square}$ |
| 19. $10^{\square} * 1,500 = 0.15$ | 20. $10^{\square} * 8,306 = 0.8306$ |

Round to the nearest million.

21. 386,905,817,009 _____
22. 9,632,928,025 _____
23. 65,837,296,702 _____
24. 9,027,583 _____
25. 782,660,327 _____
26. 2,396,920,275 _____

Write each number in standard notation.

- | | |
|-----------------------|------------------------|
| 27. 0.5 million _____ | 28. 700 thousand _____ |
| 29. 1.9 billion _____ | 30. 5.2 trillion _____ |
| 31. 67 billion _____ | 32. 100 trillion _____ |
| 33. 3 million _____ | 34. 0.2 trillion _____ |