

Chapter 5: Number Theory

Round the scientific notation in standard form.

1. $3.12 \times 10^8 =$ _____ 11. $7.96 \times 10^{-8} =$ _____

2. $4.25 \times 10^4 =$ _____ 12. $6.96 \times 10^5 =$ _____

3. $9.21 \times 10^3 =$ _____ 13. $5.424 \times 10^8 =$ _____

4. $6.44 \times 10^6 =$ _____ 14. $8.94 \times 10^4 =$ _____

5. $1.411 \times 10^{-5} =$ _____ 15. $10.10 \times 10^3 =$ _____

6. $7.92 \times 10^5 =$ _____ 16. $99.99 \times 10^{-12} =$ _____

7. $5.32 \times 10^{-7} =$ _____ 17. $54.920 \times 10^5 =$ _____

8. $4.43 \times 10^5 =$ _____ 18. $67.32 \times 10^{11} =$ _____

9. $3.20 \times 10^{-3} =$ _____ 19. $89.211 \times 10^4 =$ _____

10. $8.10 \times 10^{-4} =$ _____ 20. $431.09 \times 10^{-4} =$ _____

Round the standard form in scientific notation.

1. 8.9021 = _____ 11. 443.4343 = _____

2. 30.234 = _____ 12. 774.42421 = _____

3. 0.229 = _____ 13. 64949.2747 = _____

4. 902.12 = _____ 14. 482.74524 = _____

5. 0.01122 = _____ 15. 0.0203113 = _____

6. 78.4032 = _____ 16. 748488.43 = _____

7. 839903 = _____ 17. 423848.131 = _____

8. 90223 = _____ 18. 73749348.1 = _____

9. 87384890 = _____ 19. 0.17267181 = _____

10. 0.003493 = _____ 20. 0.000162637 = _____

Is the number prime number? Please answer "Yes" or "No".

1. 35

11. 74

2. 73

12. 29

3. 8

13. 109

4. 22

14. 41

5. 93

15. 74

6. 72

16. 52

7. 61

17. 42

8. 97

18. 63

9. 17

19. 13

10. 55

20. 89

Write the factors of the number.

1. 45

11. 82

2. 66

12. 78

3. 8

13. 69

4. 60

14. 100

5. 56

15. 9

6. 35

16. 64

7. 16

17. 88

8. 81

18. 54

9. 90

19. 72

10. 21

20. 64

Write the prime factorization of the number.

1. 63

11. 495

2. 162

12. 28

3. 85

13. 90

4. 567

14. 52

5. 550

15. 76

6. 14

16. 66

7. 420

17. 616

8. 36

18. 140

9. 80

19. 250

10. 210

20. 360

Find the GCF of the numbers.

1. 60 80	11. 161 18
2. 96 42	12. 160 40
3. 78 26	13. 90 155 325
4. 85 60	14. 24 128 192
5. 126 42	15. 64 176
6. 54 27	16. 75 147 186
7. 168 24	17. 56 144
8. 30 150 120	18. 87 678
9. 68 80	19. 99 195
10. 72 126	20. 512 328 256

Find the LCM of the numbers.

1. 60 35 75	11. 89 64
2. 25 30 40	12. 78 45 109
3. 90 54 45	13. 30 98 23
4. 85 60 125	14. 145 67 9
5. 140 68 144	15. 80 86 3
6. 360 245 18	16. 56 98 45
7. 70 110 150	17. 77 67 97
8. 92 510	18. 65 101 24
9. 95 70	19. 46 48 227
10. 189 95	20. 50 110 98