

For Class 7 (Revision Work Sheet -2)

1. If $4900=2^x \times 5^y \times 7^z$. Find the value of x , y and z .
2. Evaluate : $33.85 + 13.35 - 47.2$
3. A man is driving at a speed of 60 km/h. Calculate the distance he will have travelled in 2 h and 15 mins.
4. Convert 30 meters per second to kilometers per hour.
5. A pen costs 45 ¢ and a book cost \$ 2.65. Calculate the cost of
 - (a) 4 pens and 2 books
 - (b) 5 pens and 3 books
6. Evaluate : $[(\frac{5}{6} - \frac{1}{3}) \div 1\frac{1}{3} + \frac{1}{2}] \div (-\frac{2}{3})$
7. The HCF of two numbers is 12. If the sum of two numbers is 72, Find the numbers
8. Simplify : (a) $\frac{y}{2} - \frac{4y}{5} - 3$ (b) $\frac{1}{3}(3x + 9) - 2x$
9. Simplify: (a) $\frac{7}{8}(x - 1) - \frac{1}{6}(2x + 1)$
10. Simplify : (a) $a(a-b) + b(b-c) + c(c-a)$ (b) $a(b^2+3c) - [b^2(a-2c) - b(2ab+1)]$
11. Evaluate the following :
 - (a) $\frac{21+9}{18 \div 5}$
 - (b) $\frac{2 \times 3 - 3 \div 5}{6 \times 7 \div 2}$
 - (c) $\frac{19+9}{140 \div 5}$
 - (d) $\frac{4 \times 2 - 5}{6 \times 7 \div 2}$
12. Find the Square root : (a) 5^{-2} (b) 1225 (c) 196 (d) $\frac{16}{25}$ (e) 676
13. Find the Cube root : (a) 12167 (b) -8000 (c) 9261 (d) $\frac{27}{125}$ (e) 1331
14. Simplify $\frac{5}{6} : \frac{1}{2}$ in its lowest term.
15. Simplify: $(\frac{33}{4} + \frac{25}{14}) \times \frac{28}{281}$
16. Extract the common factors of the following.
 - (a) $12a^2bc + 30ab^2c - 48abc^2$
 - (b) $6mn+3no-np+n$
17. Simplify : $2x - [5x - 7y - 8(9x - 2y)]$
18. $F = \frac{9}{5}C + 32$, Find F when $C=20$.
19. Given $a = -3$ and $b = 6$, find the value of
 - a) $-5a + b$
 - (b) $8a^3 - b$
20. Between -25 and -35, (a) Which is smaller and (b) which is numerically smaller?
21. A number is greater than twice of another number by 11. Write an expression for the larger number in terms of the smaller number?
22. Convert 7272 s in hours, minutes and seconds.
23. If a bag costs \$ 3.99, how much do 17 such nags cost? How many bags can 1 buy with \$91.77?
24. Express 0.005378 correct to 3 significant figures.
25. Express 2758931 correct to 3 significant figures.
26. Express 56.238 correct to 1 d.p.
27. Express 99.658 correct to 1 d.p.

28. Evaluate 35.8×5.2 and express your answer to 2 sig.fig.
29. Express 9000 as a product of its prime factors.
30. Two students A and B stood for election for the post of House Captain. A received 60% of the votes cast and secured a majority of 45 votes. That is, 45 votes more than B. How many students voted?
31. A man bought 580 oranges at 25 cents each . He selected 430 larger oranges and sold them at 35 cents each. The rest were sold at 15 cents each. Find his profit.
32. Evaluate : The following by taking $p= 2, q=7, x =\frac{1}{2}, y=3$
- (a) $2p+(x-y)$
- (b) $\frac{x+y}{p^2+q^2}$
33. Robin is 8% heavier than Kobir , and Probir is 10% lighter than Kobir . By what % is Robin heavier than Probir?
34. Evaluate: $0.7 \times 0.6 \times 0.3 =$
35. Simplify : $\frac{1+a}{5} - \frac{1+a}{3} + \frac{3-a}{6}$
36. John is now 32 years old. He got married 7 years ago. His sister, Ann got married 3 years earlier than him when she was 21 years old. (a) How old was John when he got married? (b) How old was Ann when John got married? (c) How old is Ann now?
37. The absolute value of $-72=?$
38. Complete the following number patterns.
- (a) $-4, \underline{\hspace{1cm}}, 0, 2, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
- (b) $-15, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 0, \underline{\hspace{1cm}}, 10, \underline{\hspace{1cm}}$
39. Convert $7.8\text{km}=\underline{\hspace{2cm}}\text{cm}$
40. Vina had \$ 64. How much had he left if he spent \$ f.
41. The simplest form of $1.5 : 2.5$ is
42. $\sqrt{7}$ is an $\underline{\hspace{2cm}}$ numbers.
43. What is average of the numbers: 2, 4, 5, 0, 9, 10, and 12?
44. $0.002 \times 0.0007 = ?$
45. Write down the positive square root of each of the following: (a) 8100 (b) $7\frac{1}{9}$
46. How many feet there are in 5 meters? If 1 meter = 3.281 feet.
47. $(3)^2 + (-3)^2 = ?$
48. What comes next in the sequence: 2, 4, 10, 28, ____ ?
49. The table shows the temperature measured at noon in a town for a certain week.
- | Days | Sun | Mon | Tue | Wed | Thur | Fri | Sat |
|------------|------|------|------|------|------|------|------|
| Temp.in °c | 24.8 | 23.5 | 22.7 | 25.3 | 26.2 | 23.6 | 26.1 |
- Find the average temperature at noon for that week
50. Simplify: $2x - [5x - 7y - 8(9x - 2y)]$
51. Nanfa is 5 years older than tim. Write an expression for Nanfas age in terms of Tim age.
52. A car used 35.5 l of petrol for a journey of 426 km . How much petrol would it use for a journey of 600 km?