

MIRANDA SR. SEC. SCHOOL
PRACTICE WORKSHEET
CLASS VII

1. Write in exponential form:

a) $8 \times p \times p \times p \times p \times p \times y \times y \times y \times k$ b) $3 \times a \times a \times a \times a \times 3 \times b \times b$

2. Write the coefficient of each term of the expression:

a) $7r - 10m + 2/3m - m + 5$ b) $-3k + 15k - 6k - 4$

3. Identify monomials, binomials, trinomials from the following:

a) $8b + 3a - 2$ b) $-5a + 3b + ab - 1$ c) $2/3 xyz$ d) $1/4 m - 1/3 n$

4. Preethi took a loan of Rs 6000 from a money lender, who charged interest at the rate of 15% per annum. After 2 years, Preethi paid him Rs 7400 and a calculator to clear the debt. What is the price of the calculator?

5. From the sum of $a + 3b - 6ac$, $2a - b + 8ab$, $b + 8$ and $a - 3ab$, subtract the sum of $-3a + 4b - 6ac$ and $a - b + 3 + 7ab$.

6. The angles of a triangle are in the ratio 5:6:7. Calculate the measures of all the angles of the triangle.

7. The angles of a triangle are in the ratio 2:3:5. Calculate the smallest and the largest angles of the triangle.

8. The measures of two angles of a triangle are 65° and 35° . Find the third angle.

9. Find the simple interest, if Principal = Rs 5000, Rate = 15% per annum, Time = 5 yrs.

10. Find the gain or loss per cent if cost price = Rs 800, selling price = Rs 720.

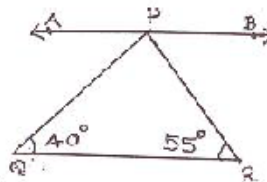
11. One of the acute angles of a right-angled triangle is 40° . Find the other one.

12. The measures of two angles of a triangle are 68° and 72° . Find the third angle.

13. One of the acute angles of a right triangle is 48° . Find other acute angle.

14. One of the angles of a triangle is 110° and the other two angles are equal. What is the measure of each of these equal angles?

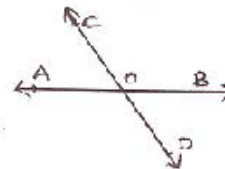
15. In the figure $AB \parallel QR$, find the value of $\angle APQ$ and $\angle BPR$, given that $\angle PRQ = 55^\circ$ and $\angle PQR = 40^\circ$.



16. Find a number whose 8% is 6

17. Add: $5x + 7y - 6z$, $4y + 3x$, $9x + 2z - 9y$ and $2y - 2x$.

18. From the figure write down: a) each linear pair b) each pair of vertically opposite angles



19. Find the perimeter and area of a square whose side is 0.15 m.

20. Each side of a square is doubled. What is the change in its area?

21. The area of a rectangle is 144 m^2 and its length is 16 m. Find its breadth.

22. Express the following per cents as fractions in simplest forms:

- a) 26% b) 55% c) 120%

23. Express each of the following as per cents:

- a) 1.21 b) 0.051 c) $14/25$

24. What is the number whose 8% is 480?

25. In a fabric, cotton and synthetic fibres are in the ratio of 3:5. What is the percentage of cotton fibre in the fabric?