1. If $\frac{\times B}{360}$ values of $A$ and $B$ are $\ldots \ldots$ respectively.
A) 5,6
B) 5,7
C) 7,5
D) 6,5
2. The proper way of representing the actual value of squareroot of 16 is
A) $\sqrt{16}=8$
B) $\sqrt{16}=\sqrt{4}$
C) $\sqrt{16}=-4$
D) $\sqrt{16}=4$
3. $2 p^{2}+3 q+r$ is a
A) Monomial
B) Binomial
C) Trinomial
D) Polynomial
4. $(a+b)(a-b)=$.
A) $a^{2}+b^{2}+2 a b$
B) $a^{2}-b^{2}$
C) $a^{2}+b^{2}-2 a b$
D) $x^{2}+(a+b) x+a b$
5. The common factor of $x^{2} y^{2}$ and $x^{3} y^{3}$ is
A) $x^{2} y^{2}$
B) $x^{3} y^{3}$
C) $x^{2} y^{3}$
D) $x^{3} y^{2}$
6. When factorised, $5 p-10=\ldots \ldots$
A) $5 p(p-2)$
B) $5(p-2)$
C) $5(p-10)$
D) $p(p-2)$
7. Two angles whose sum is $180^{\circ}$ are called
A) Complementary
B) Supplementary
C) Adjacent
D) Linear pairs
8. What are prime numbers? Give examples.
9. In the figure if $\mathrm{AB} \| \mathrm{CD}$ and $\angle \mathrm{AQR}=120^{\circ}$ find all the remaining angles.
10. Expand using suitable identity: $(4 m+3)^{2}$

11. What is an axiom? Give an example.
12. Construct a $3 \times 3$ magic square using all odd numbers from 1 to 17 .
13. In the figure if $\angle \mathrm{ABQ}=115^{\circ}$
and $\angle \mathrm{ACR}=125^{\circ}$
find all the angles of $\triangle \mathrm{ABC}$.
14. Factorise splitting the middle term : $x^{2}-7 x+12$
15. Find the cuberoot of 1728 by factorisation method.
16. The area of a square shaped land is $2025 \mathrm{~m}^{2}$. Find its side.
17. The length and breadth of a rectangle is $\left(x^{2}-3 x+2\right)$ and $\left(x^{2}+2 x-1\right)$ respectively. Find its perimeter.
18. Write the divisibility rule for 4 with an example.
19. Prove that 'The sum of the angles of a triangle is $180^{\circ}$.'
20. Draw diagrams illustrating each of the following situation:
i) $\angle \mathrm{ABC}=70^{\circ}$
ii) Linear pairs of angles
iii) Vertically opposite angles
iv) 3 points which are not collinear
