

1. If $A=m+n$, and $B=m-n$, find the value of:-

(i) $A-B$; (ii) AB ; (iii) A^2-B^2 ; (iv) $\frac{A-B}{A+B}$.

2. Show that

$$\frac{3x^2+7x+11}{x+1} = 3x+4 + \frac{7}{x+1}.$$

3. What value of x makes the third of $3x+1$ added to the fifth of $2x+1$ equal to 1?

4. Factorize :

(i) x^2+x-6 .

(ii) $3ax-bx-3ay+by$.

(iii) $4-x^2-2xy-y^2$.

5. Simplify :

(i) $\frac{a^2-b^2}{ab+b^2} - \frac{a-b}{a+b}$.

(ii) $\left(\frac{x}{1+x} + \frac{1-x}{x}\right) \div \left(\frac{x}{1+x} - \frac{1-x}{x}\right)$.

6. (i) How many £'s in $\left(\begin{matrix} \text{£} & \text{s} & \text{d.} \\ x & y & z \end{matrix}\right) \times 240$?

(ii) What would be the cost of $7\frac{1}{2}$ doz. eggs at $x/-$ a score?

(iii) How many miles per hour is x feet per second?

7. $2x$ is an even whole number. Write down the three even whole numbers which come directly after it, and also the even whole number which comes directly before it. If 6 is the average of the five numbers, what are they?

8. Tadhg is five years older than his sister Nora. Eight years ago he was twice as old as she was. When will Tadhg be 21 years old?