Sum and Product of the roots

Find the sum and product of the roots of each equation.

1) $3t^2 - 7x - 9 = 0$

   Sum of the roots = _____

   Product of the roots = _____

2) $k^2 + 6k + 10 = 0$

   Sum of the roots = _____

   Product of the roots = _____

3) $z^2 - 16z = 0$

   Sum of the roots = _____

   Product of the roots = _____

4) $4n^2 + 9 = 0$

   Sum of the roots = _____

   Product of the roots = _____

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$y^2 - 3y - 11 = 0$		
2)	$2m^2 + m + 6 = 0$		
3)	$v^2 + 25 = 0$		
4)	$15t^2 - 5t = 0$		

Sum and Product of the roots

Answer key

Find the sum and product of the roots of each equation.

1) $3t^2 - 7x - 9 = 0$

Sum of the roots = ___ $\dfrac{7}{3}$ ___

Product of the roots = ___ **−3** ___

2) $k^2 + 6k + 10 = 0$

Sum of the roots = ___ **−6** ___

Product of the roots = ___ **10** ___

3) $z^2 - 16z = 0$

Sum of the roots = ___ **16** ___

Product of the roots = ___ **0** ___

4) $4n^2 + 9 = 0$

Sum of the roots = ___ **0** ___

Product of the roots = ___ $\dfrac{9}{4}$ ___

Complete the table.

Q. No	Quadratic Equations	Sum of the roots	Product of the roots
1)	$y^2 - 3y - 11 = 0$	**3**	**−11**
2)	$2m^2 + m + 6 = 0$	$-\dfrac{1}{2}$	**3**
3)	$v^2 + 25 = 0$	**0**	**25**
4)	$15t^2 - 5t = 0$	$\dfrac{1}{3}$	**0**