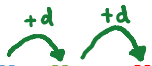
Three numbers are consecutive terms in an arithmetic sequence.
They add to give 45 and when they are multiplied together we get 2640.
What are the three numbers?



$\dots , U_n , U_{n+1} , U_{n+2} , \dots$

$\dots , U_n , U_n + d , U_n + 2d , \dots$

$U_n + U_{n+1} + U_{n+2} = 45$

$U_n \times U_{n+1} \times U_{n+2} = 2640$

$$U_n + U_n + d + U_n + 2d = 45$$
$$3\,U_n + 3d = 45$$
$$3\,(U_n + d) = 45$$
$$U_n + d = 15$$

$\dots , U_n , U_n + d , U_n + 2d , \dots$

$\dots , 15 - d , 15 , 15 + d , \dots$

$$(15 - d)(15)(15 + d) = 2640$$
$$15(15 - d)(15 + d) = 2640$$
$$(15 - d)(15 + d) = \frac{2640}{15}$$
$$(15 - d)(15 + d) = 176$$
$$225 - d^2 = 176$$
$$49 = d^2$$
$$d = \pm 7$$

$\dots , 8 , 15 , 22 , \dots$