



## Logarithms - Product Property - From Sum

**1** Convert the given logarithm to its equivalent based on the product property

$$\log_3 9 + \log_3 6$$

A	B	C	D
$\log_3 54$	$\log_{54} 3$	$\log_3 56$	$\log_3 53$

**2** Convert the given logarithm to its equivalent based on the product property

$$\log_7 3 + \log_7 3$$

A	B	C	D	E
$\log_7 7$	$\log_9 7$	$\log_7 8$	$\log_9 9$	$\log_7 9$

**3** Convert the given logarithm to its equivalent based on the product property

$$\log_3 5 + \log_3 10$$

A	B	C
$\log_{50} 3$	$\log_3 50$	$\log_3 48$

**4** Convert the given logarithm to its equivalent based on the product property

$$\log_7 8 + \log_7 2$$

A	B	C	D	E
$\log_7 16$	$\log_5 16$	$\log_7 18$	$\log_7 14$	$\log_6 16$

**5** Convert the given logarithm to its equivalent based on the product property

$$\log_7 6 + \log_7 5$$

A	B	C	D
$\log_8 30$	$\log_{30} 7$	$\log_7 30$	$\log_5 30$

**6** Convert the given logarithm to its equivalent based on the product property

$$\log_5 6 + \log_5 3$$

A	B	C	D	E
$\log_5 18$	$\log_5 19$	$\log_5 17$	$\log_{18} 5$	$\log_6 18$

**7** Convert the given logarithm to its equivalent based on the product property

$$\log_4 8 + \log_4 3$$

A	B	C
$\log_{24} 4$	$\log_4 23$	$\log_4 24$

**8** Convert the given logarithm to its equivalent based on the product property

$$\log_5 7 + \log_5 2$$

A	B	C	D
$\log_5 16$	$\log_5 14$	$\log_7 14$	$\log_5 13$