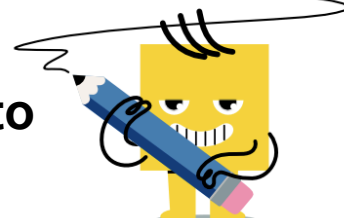# Logarithms - Product Property - Sum to Product as Integer

Name _____

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

$$\log_8 9 + \log_8 5$$

A	B	C
$\log_9 45$	$\log_{45} 8$	$\log_8 45$

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

$$\log_9 5 + \log_9 3$$

A	B	C	D
$\log_{15} 9$	$\log_9 14$	$\log_9 17$	$\log_9 15$

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

$$\log_3 4 + \log_3 7$$

A	B	C	D
$\log_3 28$	$\log_3 26$	$\log_{28} 3$	$\log_3 29$

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

$$\log_2 9 + \log_2 7$$

A	B	C	D
$\log_{63} 2$	$\log_2 63$	$\log_2 62$	$\log_2 64$

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

$$\log_2 9 + \log_2 3$$

A	B	C	D
$\log_2 27$	$\log_{27} 2$	$\log_0 27$	$\log_2 26$

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

$$\log_7 5 + \log_7 3$$

A	B	C	D
$\log_8 15$	$\log_7 13$	$\log_{15} 7$	$\log_7 15$

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

$$\log_6 9 + \log_6 2$$

A	B	C	D
$\log_6 19$	$\log_6 20$	$\log_6 18$	$\log_6 16$

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

$$\log_7 3 + \log_7 10$$

A	B	C	D
$\log_7 30$	$\log_7 31$	$\log_{30} 7$	$\log_7 29$