



Black Badge 1

Name: _____

Key

A = 5

B = 9

C = 15

D = 22

$((A \times B) + C) =$	$(D + A) + C =$	$(B + B) \times C =$
$(D + C) \times A =$	$(C + A) - B =$	$(A - B) + D =$
$(D - C) + (B + A) =$	$(C \div A) \times D =$	$((D \times C) + A) =$
$((B \times C) + A) =$	$(C \times A) + (D - A) =$	$(B \times B) + D =$
$(B + A) \times C =$	$((D + C) \times A) =$	$((C \times B) - A) =$
$(B \times A) + (C + D) =$	$(A \times C) \times B =$	$(D \times B) - C =$
$(A \times C) + (B + D) =$	$(B \times C) + D =$	$D + (A \times B) =$
$(C \times B) + D =$	$(A \times B) + (C + D) =$	$(D \times A) + (B + C) =$
$(B \times C) + (A \times D) =$	$(D \times B) + A =$	$((A \times B) + C) =$
$(A \times C) + (D \times B) =$	$((C + A) \times D) =$	$B \times (A + C) =$



Black Badge 2

Name: _____

Key A = 5 B = 9 C = 15 D = 22

$(A \times B) + C =$	$(B + B) \times C =$	$(D + A) + C =$
$(D + C) \times A =$	$(A - B) + D =$	$(C + A) - B =$
$(D - C) + (B + A) =$	$(D \times C) + A =$	$(C \div A) \times D =$
$(B \times C) + A =$	$(B \times B) + D =$	$(C \times A) + (D - A) =$
$(B + A) \times C =$	$(C \times B) - A =$	$(D + C) \times A =$
$(B \times A) + (C + D) =$	$(D \times B) - C =$	$(A \times C) \times B =$
$(A \times C) + (B + D) =$	$D + (A \times B) =$	$(B \times C) + D =$
$(C \times B) + D =$	$(D \times A) + (B + C) =$	$(A \times B) + (C + D) =$
$(B \times C) + (A \times D) =$	$(A \times B) + C =$	$(D \times B) + A =$
$(A \times C) + (D \times B) =$	$B \times (A + C) =$	$(C + A) \times D =$