KEY

0-3: Operations with Integers

Ex #1: Please find each sum or difference.

(a) 4 + 6 **10**

(b) 4 – 6 **-2**

(c) –4 + 6 **2**

(d) –4 – 6 **-10**

(e) 4 – (–6) = 4 + 6 = **10**

(f) –80 + 106 **26**

(g) –43 – 17 **-60** 43 + 17 = 60

(h) –43 + 17 **-26** 43 − 17 = 26

(i) 12 – 36 **-24** 36 − 12 = 24

(j) –1 + 53 **52**

Ex #2: Please fill in the blanks.

A POSITIVE number multiplied (or divided) by a POSITIVE number is always positive.

A POSITIVE number multiplied (or divided) by a NEGATIVE number is always negative.

A NEGATIVE number multiplied (or divided) by a POSITIVE number is always negative.

A NEGATIVE number multiplied (or divided) by a NEGATIVE number is always positive.

Ex #3: Please find each sum or product.

(a) 64 ÷ –8 **-8**

(b) 12(–6) **-72** 12 × 6 = 72

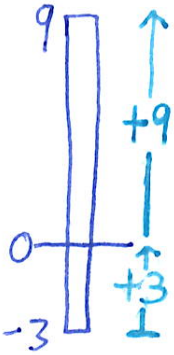
(c) –4 ÷ –1 **4**

(d) –300 ÷ 2 **-150** $\frac{-300}{2} = \frac{-150}{1}$

(e) –23 · –4 **92** 23 × 4 = 92

(f) –3(2)(–4) **24** −3 · 2 · −4 = −6 · −4 = 24

Ex #4: If you wake up in the morning and it's –3°C (cold!) and by noon it's 9°C, then how much did the temperature increase overall?



$+3^\circ + 9^\circ =$ **12° increase**

Ex #5: A concert organizer distributes 50 promotional-codes, each good for a $4 discount off of a certain show. What is the total amount of discounts combined, for all the promotional-codes?

50 codes
× $4
$200

$200 total in discounts

Ex #6: Suppose Suzanne makes $20/hour, and works 12 hours one week. If $38 is held for taxes, how much does Suzanne receive in total, after taxes?

$20/hour × 12 hours = $240 salary

$240 salary − $38 taxes = **$202 in take-home pay**