

# Order of Tricks

## Introduction

### I. Siri Time Constant

### II. Multiplication Tricks

- Finger - Fun
- Quickly multiply by 9 (or 0.9, 90, 900, etc.)
- Quickly multiply by 99 (or 0.99, 9.9, 990, etc.)
- Quickly multiply by 999
- Quickly multiply with multiples of 9
- Quickly multiply any 1 digit-number by 11
- Quickly multiply any 2 digit-number by 11 and 110
- Quickly multiply any 3 digits or larger number by 11
- Quickly multiply a 1 or 2 digit number by 101
- Multiplying a 2 digit number by 1001
- Multiplying a 3 digit number by 1001
- Multiplying a 2 or 3 digit number by 10001
- Multiplying by 10, 100, etc.,
- Quickly multiply two numbers that are just over 100
- Quickly multiply numbers just under and just over 100
- Quickly multiply numbers around multiples of 100
- Quickly multiply numbers around 50
- Multiplying numbers by 12
- Quickly multiply by 25 (or 0.25, 2.5, 250, etc.)
- Multiply numbers up to  $20 \times 20$  in your head
- Place value Multiplication

# SIRI Time Constant

$$A \pm B = C \text{ (min./sec. } \geq 60) \pm 40$$

- $$\begin{array}{r} 3 \text{ hrs. } 48 \text{ min.} \\ + 2 \text{ hrs. } 59 \text{ min.} \\ \hline \end{array}$$
- $$\begin{array}{r} 5 \text{ min. } 18 \text{ sec.} \\ - 3 \text{ min. } 27 \text{ sec.} \\ \hline \end{array}$$
- $$\begin{array}{r} 9 \text{ hrs. } 59 \text{ min.} \\ + 9 \text{ hrs. } 59 \text{ min.} \\ \hline \end{array}$$
- $$\begin{array}{r} 10 \text{ min. } 42 \text{ sec.} \\ - 7 \text{ min. } 55 \text{ sec.} \\ \hline \end{array}$$

1) 6 hrs. 47 min. 2) 1 min. 51 sec. 3) 19 hrs. 58 min. 4) 2 min. 47 sec.

## ANSWERS SIRI TIME CONSTANT:

# Multiplication Tricks

### a) Finger Fun

$$1) 9 \times 6 \quad 2) 3 \times 9 \quad 3) 8 \times 9$$

### b) Quickly Multiply by 9 ( or 0.9, 90, 900, etc)

$$1) 16 \times 9 \quad 2) 7.4 \times .9 \quad 3) 19.4 \times 900$$

### c) Quickly Multiply by 99 (or 0.99, 99, 990, etc)

$$1) 8 \times 99 \quad 2) 3.7 \times 9.9 \quad 3) 290 \times 99$$

### d) Multiplying by 999

$$1) 76 \times 999 \quad 2) 234 \times 999$$

### e) Quickly Multiply with multiples of 9

$$1) 71 \times 27 \quad 2) 13 \times 54$$

### f) Quickly Multiply any 1 digit-number by 11

$$1) 8 \times 11 \quad 2) 2 \times 11 \quad 3) 5 \times 11$$

### g) Quickly Multiply any 2 digit-number by 11 and 110

$$1) 81 \times 11 \quad 2) 33 \times 11 \quad 3) 65 \times 11 \quad 4) 76 \times 110$$

### h) Quickly Multiply any 3 digit-number or larger number by 11

$$1) 245 \times 11 \quad 2) 734 \times 11$$

### i) Quickly Multiply 1 or 2 digit number by 101 (or 1.01, 10.1, 1010)

$$1) 6 \times 101 \quad 2) 28 \times 101 \quad 3) 1.01 \times 83$$

### j) Multiplying a 2-digit number by 1001

$$1) 32 \times 1001 \quad 2) 55 \times 1001$$

### k) Multiplying a 3-digit number by 1001

$$1) 246 \times 1001 \quad 2) 333 \times 1001$$

### l) Multiplying a 2 or 3 digit number by 10001

$$1) 36 \times 10001 \quad 2) 583 \times 10001 \quad 3) 999 \times 10001$$

### m) Multiplying by 10, 100, etc.

$$1) 18 \times 10 \quad 2) 32 \times 100 \quad 3) 98 \times 1000$$

### n) Quickly multiply two numbers that are just over 100

$$1) 106 \times 102 \quad 2) 114 \times 107$$

### o) Quickly multiply numbers just under and just over 100

$$1) 97 \times 96 \quad 2) 103 \times 104$$

### p) Quickly multiply numbers around multiples of 100

$$1) 199 \times 196 \quad 2) 195 \times 198$$

### q) Quickly multiply numbers around 50

$$1) 48 \times 49 \quad 2) 47 \times 48$$

### r) Multiplying numbers by 12

$$1) 526 \times 12 \quad 2) 5263981 \times 12$$

### s) Quickly Multiply by 25 (or .25, 2.5, 250)

$$1) 700 \times .25 \quad 2) 600 \times 2.5 \quad 3) 1234 \times 25$$

### t) Multiplying up to $20 \times 20$ in your head!

$$1) 19 \times 15 \quad 2) 13 \times 17$$

### u) Place Value Multiplication

$$1) 14 \times 6 \quad 2) 24 \times 8 \quad 3) 112 \times 5$$

## ANSWERS MULTIPLICATION TRICKS:

- a) Finger Fun  
1) 54 2) 27 3) 72  
b) Quickly Multiply by 9 (or 0.9, 90, 900, etc)  
1) 144 2) 6.66 3) 17,460  
c) Quickly Multiply by 99 (or 0.99, 99, 990, etc)  
1) 792 2) 36.63 3) 287.1  
d) Multiplying by 99  
1) 75924 2) 233,776  
e) Quickly Multiply with multiples of 9  
1) 1917 2) 702  
f) Quickly Multiply any 1 digit-number by 11  
1) 88 2) 22 3) 55  
g) Quickly Multiply any 2 digit-number by 11 and 110  
1) 891 2) 363 3) 715 4) 8360  
h) Quickly Multiply any 3 digit-number or larger number by 11  
1) 2695 2) 8074  
i) Quickly Multiply 1 or 2 digit number by 101 (or 1.01, 10.1, 1010)  
1) 606 2) 2828 3) 83.83  
j) Multiplying a 2-digit number by 1001  
1) 32032 2) 55055  
k) Multiplying a 3-digit number by 1001  
1) 246246 2) 333333  
l) Multiplying a 2 or 3 digit number by 10001  
1) 360036 2) 5830583 3) 99909999  
m) Multiplying by 10, 100, etc.  
1) 180 2) 3200 3) 98000  
n) Quickly multiply two numbers that are just over 100  
1) 10812 2) 12198

o) Quickly multiply numbers just under and just over 100  
1) 9312 2) 10712

p) Quickly multiply numbers around multiples of 100  
1) 39004 2) 38610

q) Quickly multiply numbers around 50  
1) 2352 2) 2256

r) Multiplying numbers by 12  
1) 6312 2) 6316772

s) Quickly Multiply by 25 (or .25, 2.5, 250)  
1) 175 2) 1500 3) 30850

t) Multiplying up to 20 x 20 in your head!  
1) 285 2) 221

u) Place Value Multiplication  
1) 84 2) 192 3) 560

# EZ MATH TRIX

## MULTIPLICATION

KA316

## Study Guide Worksheet

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