

Order of Tricks

Introduction

I. Siri Time Constant

II. Division Tricks

- Quickly Divide by 9, 99, 999
- Dividing by 10, 100, 1000, and so forth
- Quickly Divide by 5, 50, 500, etc.
- Quickly Divide by 25, 250
- Dividing with Even Numbers
- Dividing with Factors
- Canceling Zeros
- Divisibility Tests

III. Squaring Tricks

- Squaring Numbers around 100
- Squaring Numbers around 1000
- Squaring a 2 digit number ending in 5
- Squaring any number of 9s

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:

Division Tricks

A) Quickly Divide by 9, 99, 999:

- 1) 7/999 2) 26/99 3) 450/99

B) Dividing by 10, 100, 1000, and so forth:

- 1) 234/10 2) 828/100 3) 455/10000

C) Quickly Divide by 5, 50, 500, etc:

- 1) 48/5 2) 362/50 3) 3333/500

D) Quickly Divide by 25, 250:

- 1) 800/25 2) 800/250

E) Dividing with Even Numbers:

- 1) 126/30 2) 156/50

F) Dividing with Factors:

- 1) 6120/72 2) 3564/36

G) Canceling Zeros:

- 1) 53760/2800

H) Divisibility Tests:

- Is 234 divisible by 3?
- Is 4428 divisible by 4?
- Is 496803 divisible by 6?

Squaring Tricks

A) Squaring Numbers around 100:

- 1) 98^2 2) 90^2 3) 105^2

B) Squaring Numbers around 1000:

- 1) 997^2 2) 1003^2

C) Squaring a 2 digit number ending in 5:

- 1) 65^2 2) 35^2 3) 85^2

D) Squaring any numbers of 9s:

- 1) 99999^2 2) 999^2

EZ MATH TRIX

DIVISION and SQUARING

KA317

Study Guide Worksheet

ANSWERS SQUARING TRICKS:

A) Squaring Numbers around 100:
1) 9604 2) 8100 3) 11025

B) Squaring Numbers around 1000:
1) 994009 2) 1006009

C) Squaring a 2 digit number ending in 5:
1) 4225 2) 1225 3) 7225

D) Squaring any numbers of 9s:
1) 9999800001 2) 998001

ANSWERS DIVISION TRICKS:

Answers:

A) Quickly Divide by 9, 99, 999:

1) 0.007007 2) 0.262626 3) 4.545454

B) Dividing by 10, 100, 1000, and so forth:

1) 23.4 2) 8.28 3) 0.0455

C) Quickly Divide by 5, 50, 500, etc:

1) 9.6 2) 7.24 3) 6.666

D) Quickly Divide by 25, 250:

1) 32 2) 3.2

E) Dividing with Even Numbers:

1) 4.2 2) 3.12

F) Dividing with Factors:

1) 85 2) 99

G) Canceling Zeros:

1) 19.2

H) Divisibility Tests:

1) Yes

2) Yes

3) No

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