Basic Facts Routine

The Art of Teaching

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BASICS FACTS ROUTINE

What are basic facts?

Math basic facts are essential number combinations for addition, subtraction, multiplication, and division.

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Why are they important?

Basic Facts Fluency ensures children can focus on higher-level concepts because it reduces cognitive load and improves confidence, making math more fun.

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Calculating Area

What is the Area of this shape?

To answer the question, you need to know two things

1. What to do:
   Knowing to use the correct formula.

2. How to do it:
   Perform the calculations accurately.

If students aren't fluent in basic facts (like multiplication and addition), they will struggle with the calculations, increasing their cognitive load.

Fluent basic fact knowledge frees up mental space to focus on problem-solving rather than getting stuck on simple steps.

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Learning Question

How can we help kids become fluent in basic facts while having fun?

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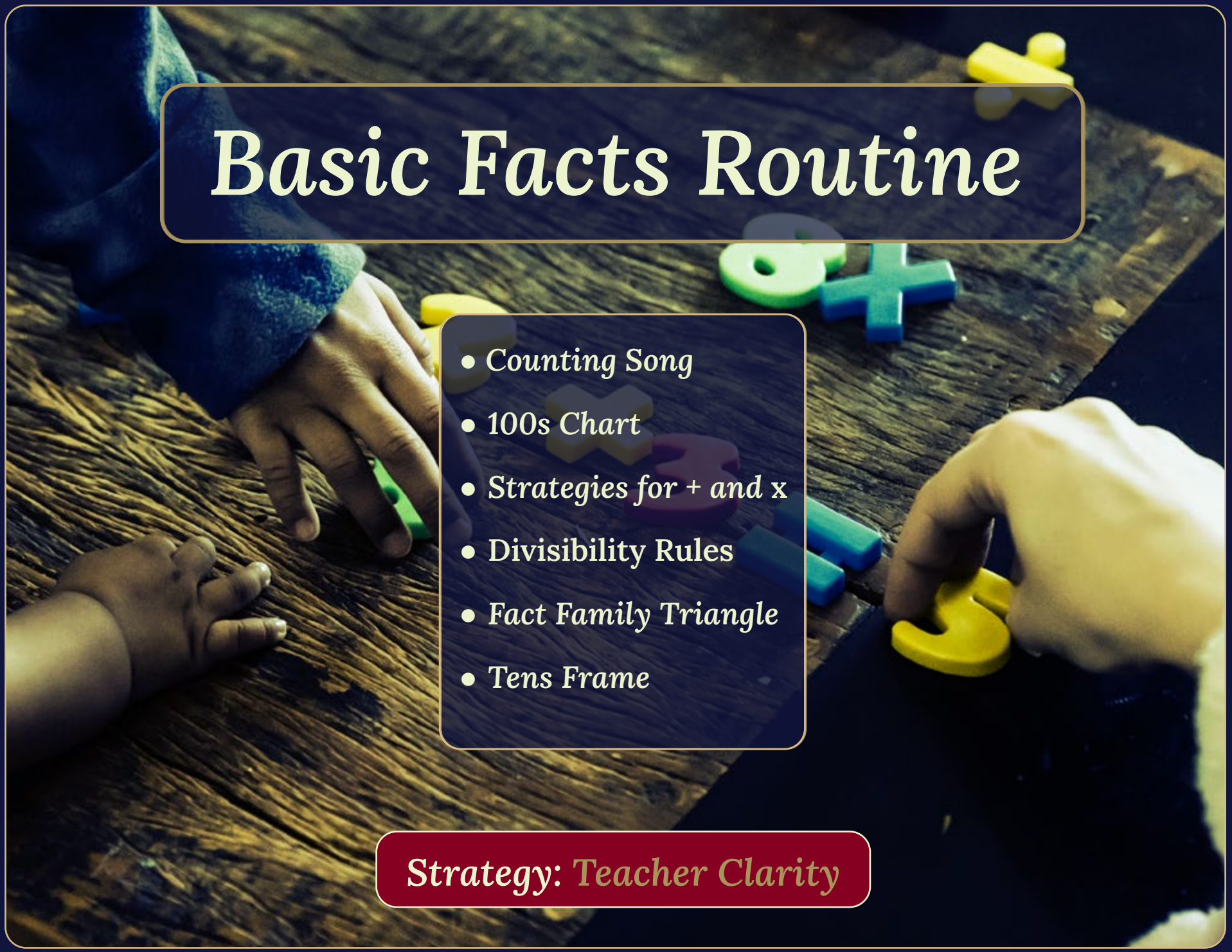

Basic Facts Routine

- Counting Song
- 100s Chart
- Strategies for + and x
- Divisibility Rules
- Fact Family Triangle
- Tens Frame

Strategy: Teacher Clarity

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Counting Song

CLICK HERE TO LISTEN TO
THE COUNTING SONG

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Counting Game

Use a ball

I count, you count

Count and stop

Extension

count in 40's or 400's

Strategy: Differentiation

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100s Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

CLICK HERE FOR THE ONLINE INTERACTIVE 100s CHART

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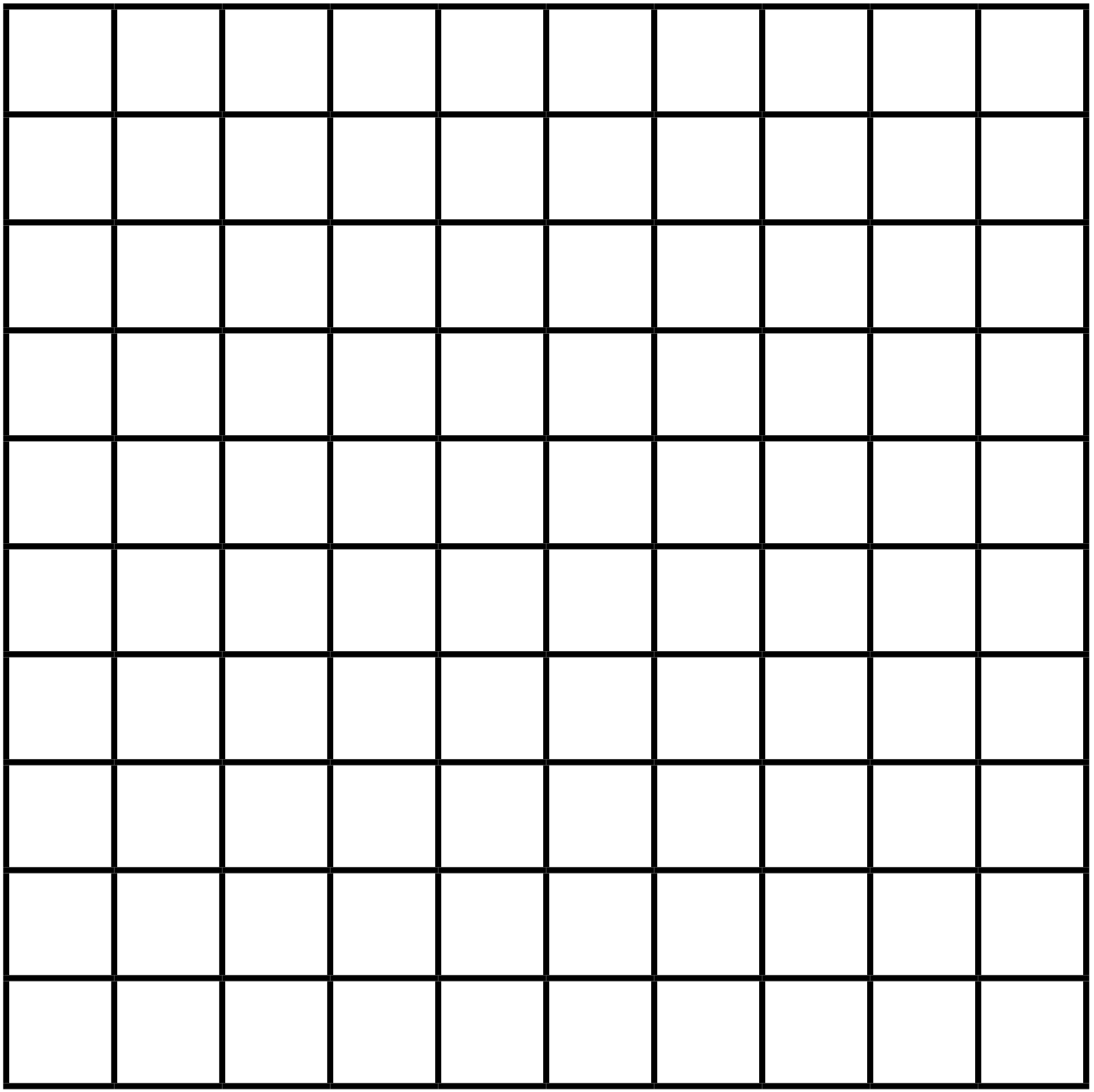
100s Chart Blank



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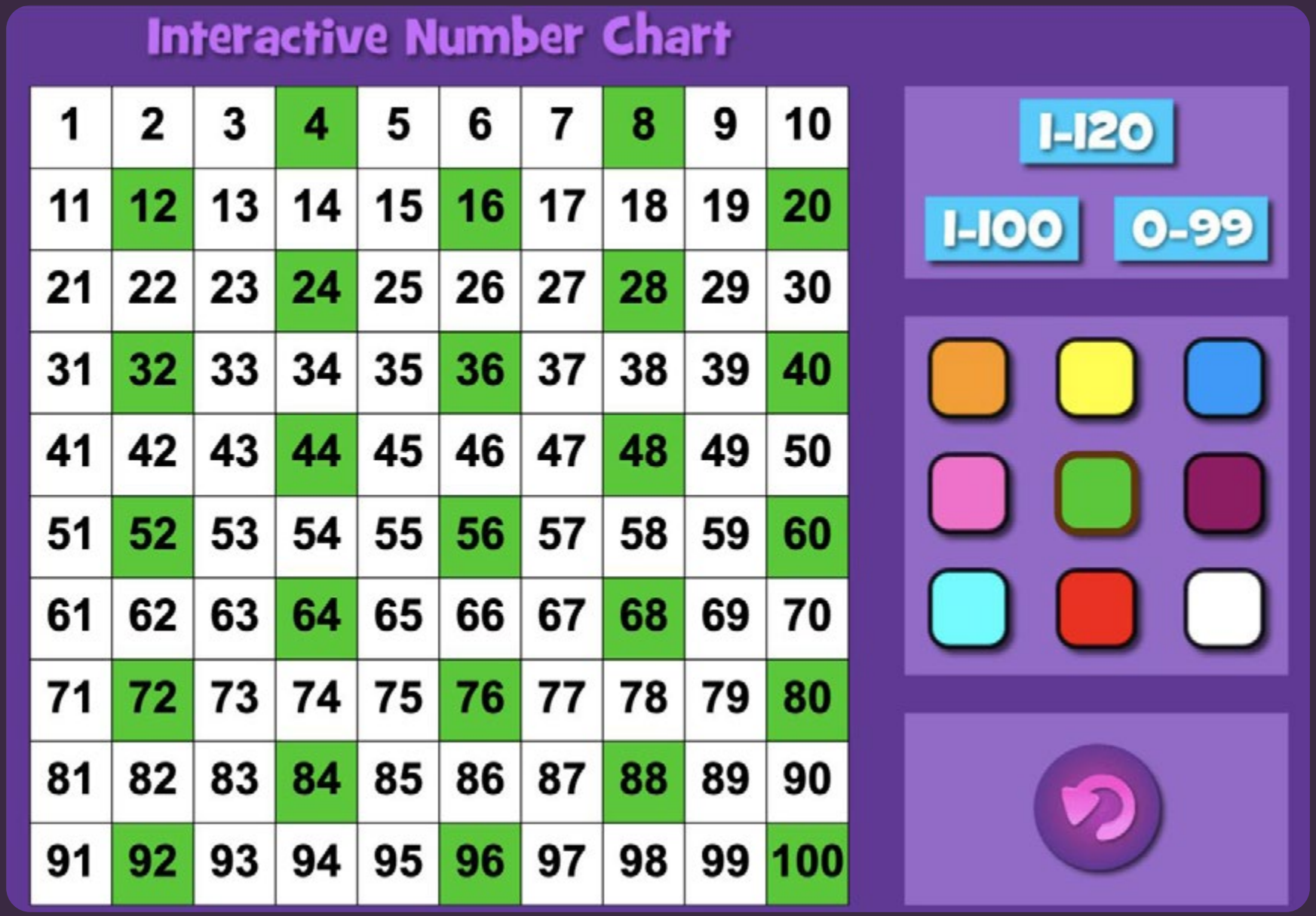
Interactive Number Chart



Strategy: *Class Discussion*

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Strategies for Addition

Friends of 10: *such as 9+1,*

Counting On: *to add 5 + 3, start at 5 and count 6, 7, 8.*

Doubles: *Memorizing 2+2, 3+3, 4+4, etc.*

Near Doubles: *5+5=10, then 5+6 is 5+5+1=11*

Decomposing Numbers: *7 + 8, broken down (7 + 3) + 5 = 10 + 5 = 15.*

Making Ten: *9+5=10+4 8 + 5 = 8 + 2 + 3*

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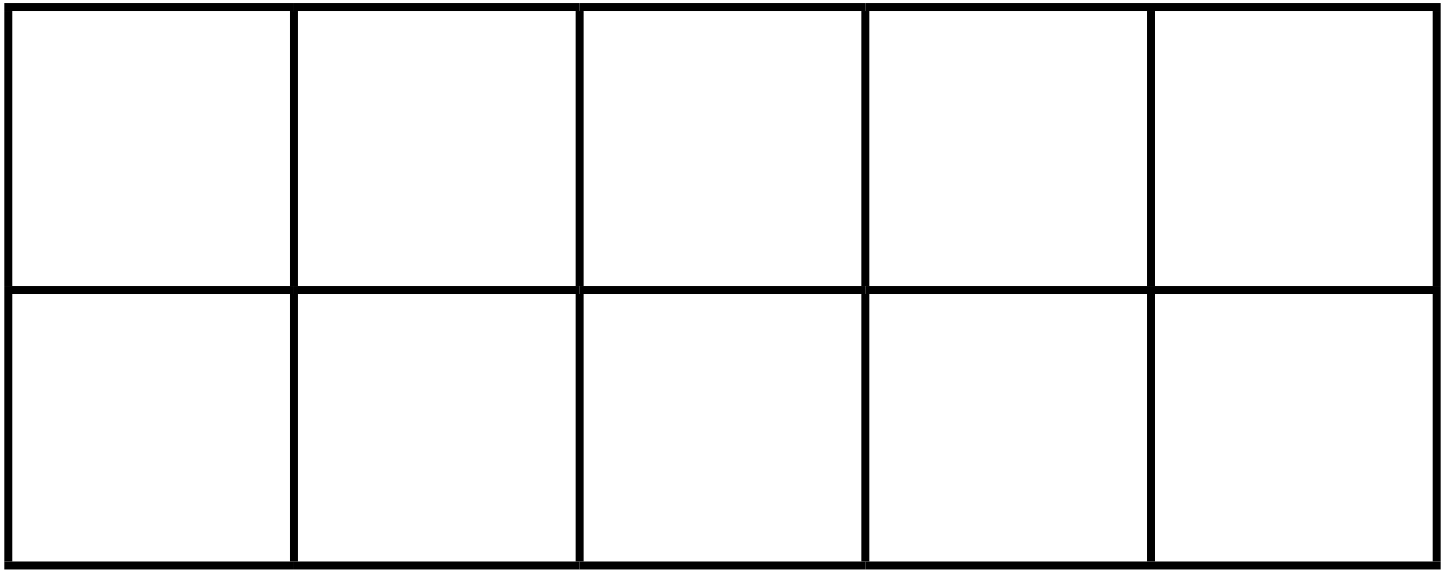
10s Chart Blank



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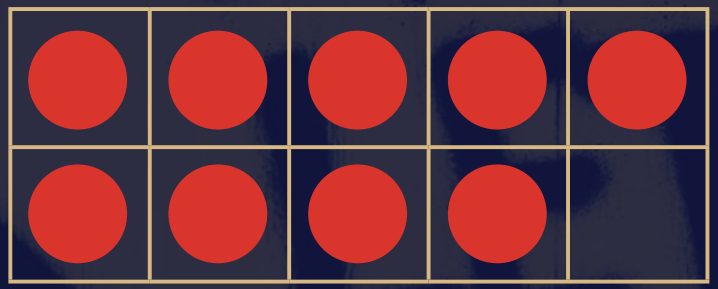
9 + 4 = 10 + 3



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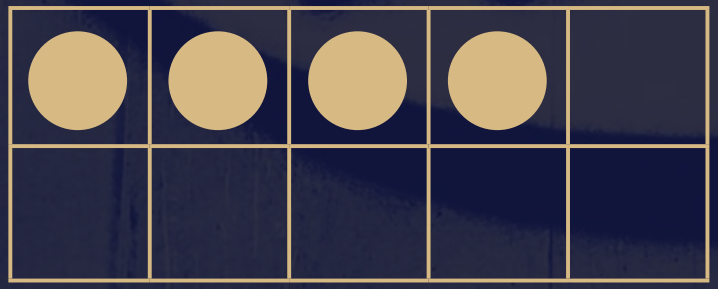

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Strategies for Multiplication

x0: *always 0*

x1: *is one group of*

x2, x4, x8: *Double, Double Double, Double Double Double*

x5: *x5 is half of x10*

x10: *the number gets 10 x bigger on the place value chart. NOT add a zero*

Square numbers: *2x2 and 3x3*

Known Facts: *7x6 is 6x6 plus a 6*

Distributive Property: *6x8 is (6x6)+(6x2)*

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Divisibility Rules

A number is divisible by	If the following rules are met
2	The last digit is even
3	The sum of it's digits is devisable by 3
4	The number represented by it's last two digits is devisible by 4
5	The last digit is 0 or 5
6	The number is divisible by 2 and 3
7	Remove the last digit, double it, subtract it from the leftover number. The result is divisible by 7
8	The number represented by it last 3 digits is devisible by 8
9	The sum of it's digits is devisible by 9
10	The last digit is 0

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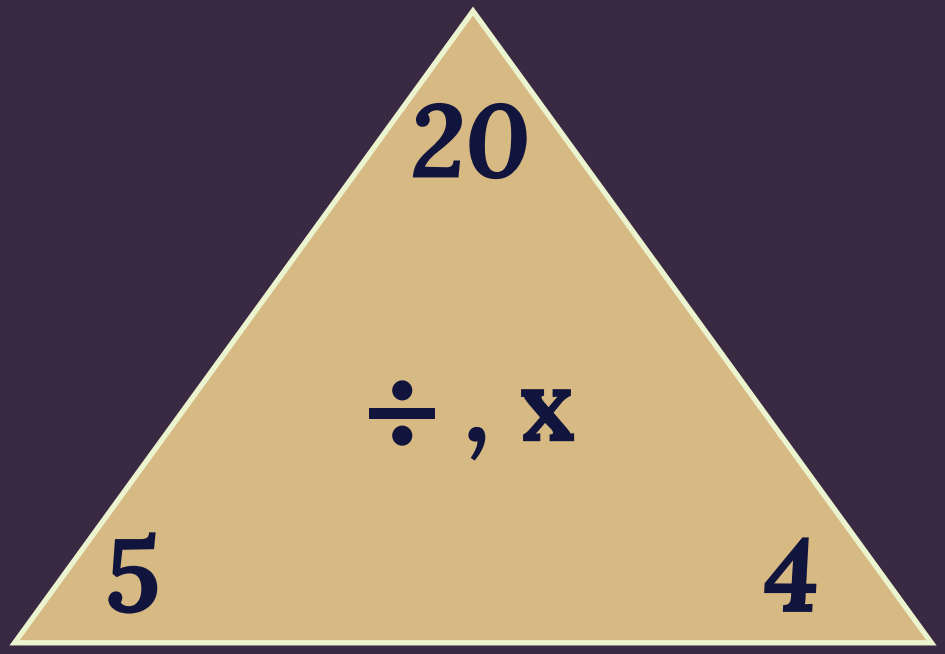
Fact Families



$5 \times 4 = 20$

$4 \times 5 = 20$

$20 \div 4 = 5$

$20 \div 5 = 4$

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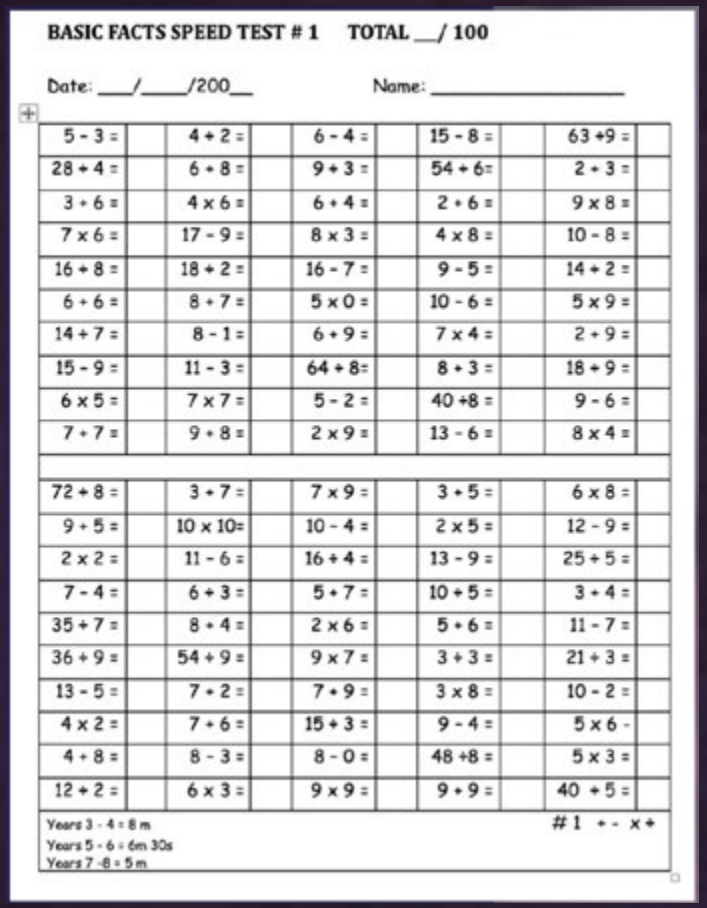
Basic Facts



BASIC FACTS SPEED TEST # 1 TOTAL __/ 100

Date: ___/____/200__ Name: _____

5 - 3 =		4 + 2 =		6 - 4 =		15 - 8 =		63 +9 =	
28 + 4 =		6 + 8 =		9 + 3 =		54 + 6=		2 + 3 =	
3 + 6 =		4 x 6 =		6 + 4 =		2 + 6 =		9 x 8 =	
7 x 6 =		17 - 9 =		8 x 3 =		4 x 8 =		10 - 8 =	
16 + 8 =		18 + 2 =		16 - 7 =		9 - 5 =		14 + 2 =	
6 + 6 =		8 + 7 =		5 x 0 =		10 - 6 =		5 x 9 =	
14 + 7 =		8 - 1 =		6 + 9 =		7 x 4 =		2 + 9 =	
15 - 9 =		11 - 3 =		64 + 8=		8 + 3 =		18 + 9 =	
6 x 5 =		7 x 7 =		5 - 2 =		40 +8 =		9 - 6 =	
7 + 7 =		9 + 8 =		2 x 9 =		13 - 6 =		8 x 4 =	
72 + 8 =		3 + 7 =		7 x 9 =		3 + 5 =		6 x 8 =	
9 + 5 =		10 x 10=		10 - 4 =		2 x 5 =		12 - 9 =	
2 x 2 =		11 - 6 =		16 + 4 =		13 - 9 =		25 + 5 =	
7 - 4 =		6 + 3 =		5 + 7 =		10 + 5 =		3 + 4 =	
35 + 7 =		8 + 4 =		2 x 6 =		5 + 6 =		11 - 7 =	
36 + 9 =		54 + 9 =		9 x 7 =		3 + 3 =		21 + 3 =	
13 - 5 =		7 + 2 =		7 + 9 =		3 x 8 =		10 - 2 =	
4 x 2 =		7 + 6 =		15 + 3 =		9 - 4 =		5 x 6 -	
4 + 8 =		8 - 3 =		8 - 0 =		48 +8 =		5 x 3 =	
12 + 2 =		6 x 3 =		9 x 9 =		9 + 9 =		40 + 5 =	

Years 3 - 4 = 8 m
Years 5 - 6 = 6m 30s
Years 7 -8 = 5 m

1 + - x +

Identify easy ones

Find known strategies

Highlight

Focus on growth

CLICK HERE TO DOWNLOAD BASIC FACTS TEST SHEETS

Strategies: *Self Reported Grades, Feedback, Goal Setting*

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Important!

Do the routine daily

High energy

Focus on growth

Use 1 test sheet for the week

Track the data – use a graph

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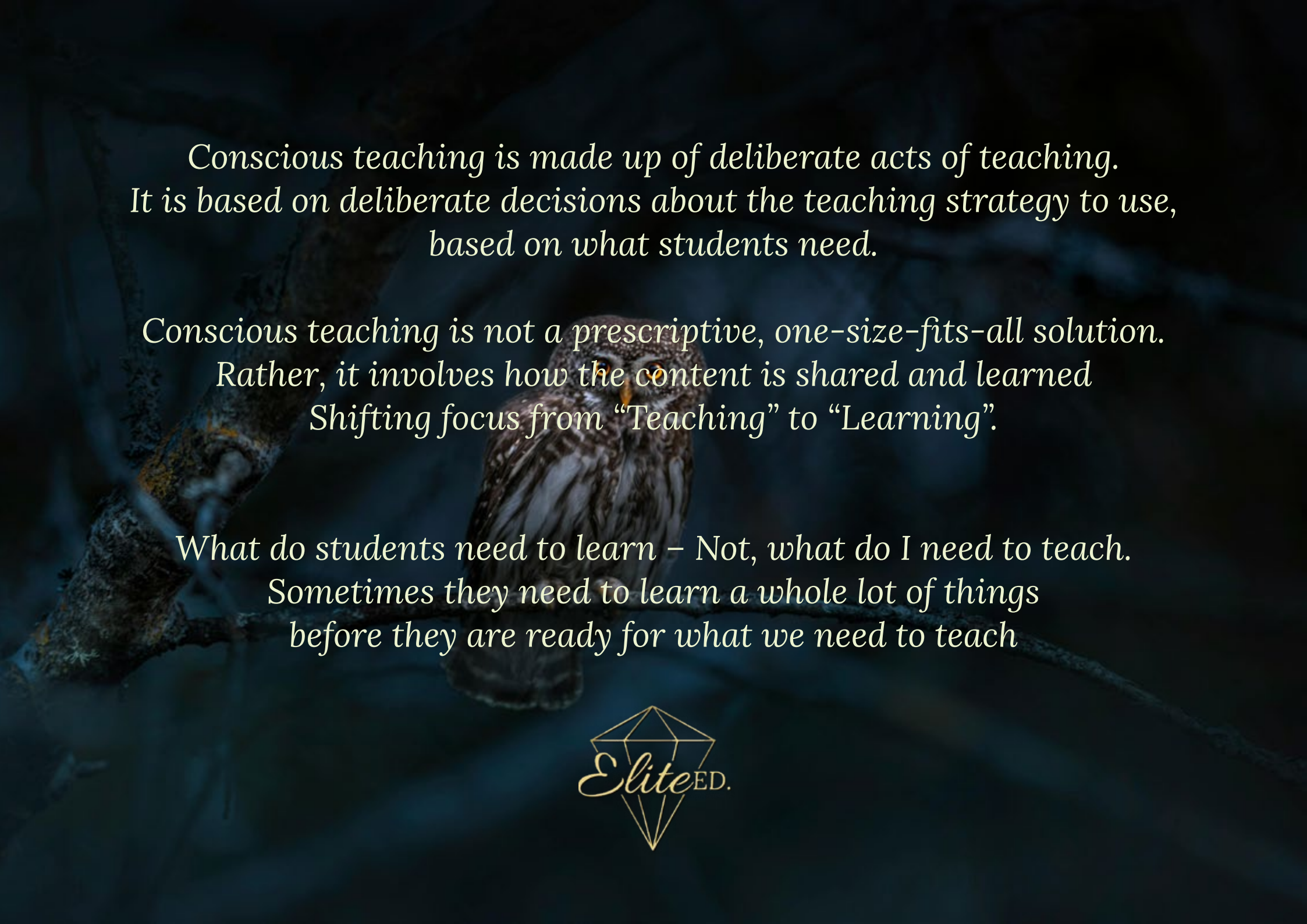

Conscious teaching is made up of deliberate acts of teaching.
It is based on deliberate decisions about the teaching strategy to use,
based on what students need.

Conscious teaching is not a prescriptive, one-size-fits-all solution.
Rather, it involves how the content is shared and learned
Shifting focus from "Teaching" to "Learning".

What do students need to learn – Not, what do I need to teach.
Sometimes they need to learn a whole lot of things
before they are ready for what we need to teach

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Have fun teaching!
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