

Dear Parents,

Attached you will find a copy of each algorithm (method) taught in class.

Please use this to help your child when doing homework. You can also find a more detailed explanation of these methods in the Student Reference Book (SRB) or by visiting the Everyday Math website below.

1. Visit <https://www.everydaymathonline.com/>

2. Click on

Launch

next to Free Resources

3. Click on

Algorithm
Animations Sampler

4. Choose one of the "focus algorithms" that you want to learn more about (or maybe your child needs explained to them again).

It will walk you step-by-step through the algorithm. This is great if you do not understand one (or any) of the methods taught in class. You and your child can watch a problem get solved step-by-step. This will improve your understanding of the methods. We hope you find it useful.

Thank you!

Your Math Action Team—Tallwood Elementary School

PARTIAL-SUMS ADDITION

483

+265

WORK LEFT TO RIGHT...ADD THE COLUMNS.

THINK...
HOW MANY PARTS ??
(The biggest number has 3
digits so there will be 3
parts.)

STEP 1: ADD

$$\begin{array}{r} 400 \dots\dots 483 \\ +200 \dots\dots +265 \\ \hline 600 \end{array}$$

STEP 2: ADD

$$\begin{array}{r} 80 \dots\dots 483 \\ +60 \dots\dots +265 \\ \hline 140 \quad 600 \end{array}$$

STEP 3: ADD

$$\begin{array}{r} 3 \dots\dots 483 \\ +5 \dots\dots +265 \\ \hline 8 \quad 140 \quad 600 \end{array}$$

FINAL STEP:
ADD THE PARTS

$$\begin{array}{r} 483 \\ +265 \\ \hline 748 \\ +8 \\ \hline 748 \end{array}$$

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TRADE-FIRST SUBTRACTION

463

-278

THINK...
 HOW MANY STEPS BEFORE YOU SUBTRACT ??
 (The biggest number has 3 digits so there will be 3 steps.)

WORK LEFT TO RIGHT...TRADE.

<p>STEP 1: TRADE?</p> <p>THINK... IS 400 BIGGER THAN 200? YES!! MOVE ON!</p> <p>463 <u>-278</u></p>	<p>STEP 2: TRADE?</p> <p>THINK... IS 60 BIGGER THAN 70? NO!! MAKE A TRADE.</p> <p>3 16 463 <u>-278</u></p>	<p>STEP 3: TRADE?</p> <p>THINK... IS 3 BIGGER THAN 8? NO!! MAKE A TRADE.</p> <p>3 15 13 463 <u>-278</u></p>	<p>FINAL STEP: SUBTRACT IN COLUMNS</p> <p>3 15 13 463 <u>-278</u> 185</p>
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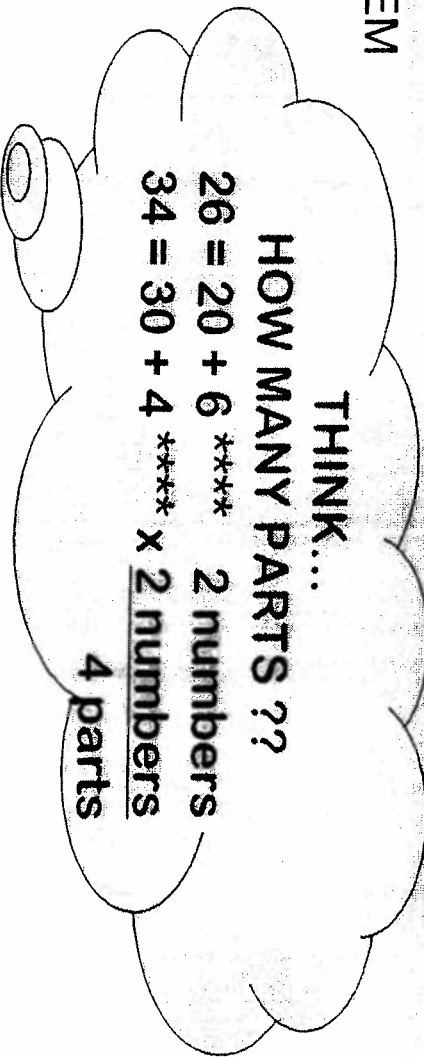
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PARTIAL-PRODUCTS MULTIPLICATION

STEP 1: WRITE THE PROBLEM

26

X34



STEP 2: MULTIPLY

$$\begin{array}{r} 26 \\ \times 34 \\ \hline (30 \times 20) \ 600 \end{array}$$

STEP 3: MULTIPLY

$$\begin{array}{r} 26 \\ \times 34 \\ \hline (20 \times 30) \ 600 \\ (30 \times 6) \ 180 \end{array}$$

STEP 4: MULTIPLY

$$\begin{array}{r} 26 \\ \times 34 \\ \hline (20 \times 30) \ 600 \\ (30 \times 6) \ 180 \\ (4 \times 20) \ 80 \end{array}$$

STEP 5: MULTIPLY

$$\begin{array}{r} 26 \\ \times 34 \\ \hline (20 \times 30) \ 600 \\ (30 \times 6) \ 180 \\ (4 \times 20) \ 80 \\ (6 \times 4) \ 24 \end{array}$$

STEP 6: ADD THE PARTS

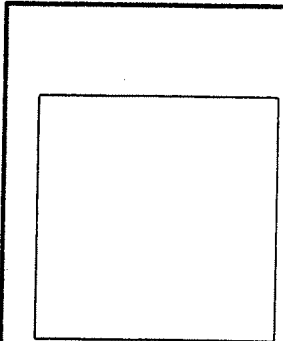
$$\begin{array}{r} 26 \\ \times 34 \\ \hline (20 \times 30) \ 600 \\ (30 \times 6) \ 180 \\ (4 \times 20) \ 80 \\ (6 \times 4) \ +24 \\ \hline 884 \end{array}$$

LATTICE MULTIPLICATION

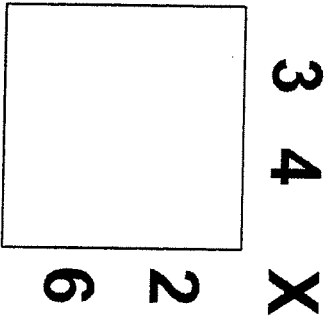
34

X26

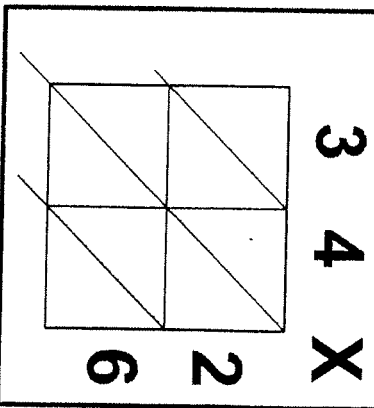
STEP 1: DRAW



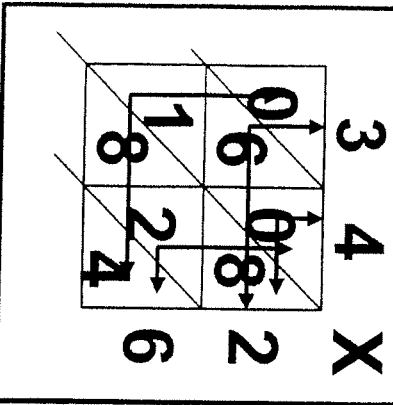
STEP 2: WRITE



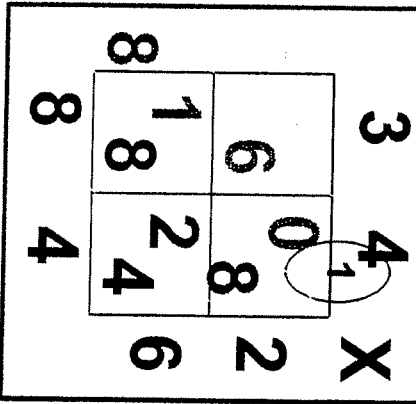
STEP 3: DRAW LINES



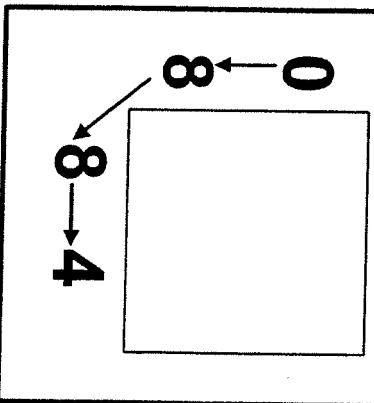
STEP 4: MULTIPLY



STEP 5: ADD



STEP 6: WRITE THE ANSWER



34

X26

884

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