SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL! COUNTING RESEARCH NOTES cöunt ľegrhed facts **P**3 **LEARNED FACTS** Subtraction (DIVIDING BY 1; DIVIDING 0 BY A NUMBER; DIVIDING A NUMBER BY ITSELF; IMPOSSIBLE TO DIVIDE BY 0) UNDERSTANDING THE PROPERTIES repeated 22 ÷ 5 Pröperties 4 × 2 $26 \div 7$ FACT FAMILIES 2 × 4 **DIVIDING A NUMBER BY ITS HALF USING MULTIPLICATION TO THINK** ∞ ·|· **EXPLORING EQUAL GROUPS AND ARRAYS** 2 × ? =8 14 ÷ 7 **ABOUT DIVISION** PROGRESSION OF DIVISION **DIVYING UP BY MORE THAN I) EXPLORING EQUAL GROUPS AND ARRAYS** DIVIDING BY 2 ∞ ·I· Ø DIVYING UP BY 1) $6 \div 3$ EFFICIENCY ACCURACY 'I can model division with arrays 'I can model division with equal groups FZEXIBIZITY FLUENCY IS M N

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RESEARCH NOTES

- EQUAL GRÖUPS/ARRAYS
 LEVEL 1: DIYVING UP BY 1
 LEVEL 2: DIYVING UP BY MÖRE THAN 1
- repeated subtraction
- 3 SKip cöunting
- using related multiplication facts
- **5** Pröpertjes
- 6 Learned facts

^{*}I can model division with equal groups

*I can model divis<mark>ion</mark> with arrays

USING
MULTIPLICATION
TO THINK ABOUT
DIVISION

8 ÷ 2 2 x ? <u>=8</u>

LEARNED FACTS

25 ÷ **5**

UNDERSTANDING THE PROPERTIES

(DIVIDING BY I; DIVIDING O BY A NUMBER; DIVIDING A NUMBER BY ITSELF; IMPOSSIBLE TO DIVIDE BY 0)

56 ÷ 7

FACT FAMILIES

FLUENCY IS

EFFICIENCY

ACCURACY

EXIBITITY

DIVIDING A NUMBER BY
ITS HALF

14÷7

EXPLORING
EQUAL GROUPS
AND ARRAYS
(DIVYING UP BY
BY MORE THAN 1)

12 ÷ 6

EXPLORING
EQUAL
GROUPS AND
ARRAYS
(DIVYING UP BY I)

DIVIDING BY

SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL! CÖUNTING RESEARCH NOTES cöunt Tearned facts **LEARNED FACTS** DIVIDING BY 1; DIVIDING 0 BY A NUMBER; DIVIDING A UNDERSTANDING THE PROPERTIES Subtraction NUMBER BY ITSELF; IMPOSSIBLE TO DIVIDE BY 0) repeated 22 ÷ 5 4 × 2 Pröperties **26** ÷ 7 **FACT FAMILIES** 2 × 4 **DIVIDING A NUMBER BY ITS HALF USING MULTIPLICATION TO THINK** ∞ ·l· 2 **EXPLORING EQUAL GROUPS AND ARRAYS** 2 × ? =8 14 ÷ 7 **ABOUT DIVISION** 8 ⊹ 4 (DIVYING UP BY MORE THAN I) $12 \div 6$ PROGRESSION OF DIVISION THAT OF THAT OF **EXPLORING EQUAL GROUPS AND ARRAYS DIVIDING BY 2** ∞ ·I· 23 DIVYING UP BY 1) EFFICIENCY Accuracy FEEXIBIEITY 'I can model division with arrays "I can model division with equal groups FLUENCY IS M 2



RESEARCH NOTES

- EQUAY GRÖUPS/ARRAYS YEVEY 1: DIYVING UP BY 1 YEVEY 2: DIYVING UP BY MÖRE THAN 1
- repeated subtraction
- SKip cöunting
- using rezated Ztipzicatiön facts
- Pröperties
- Learned facts

*I can model division with equal groups

*I can model division with arrays

USING MULTIPLICATION **TO THINK ABOUT** DIVISION

> 8 ÷ 2 2 x ? =8

EXPLORING EOUAL GROUPS AND ARRAYS (DIVYING UP BY I) 6 ÷ 3

DIVIDING BY 2

SAMEY TO FUID LEARNED **FACTS**

25 ÷ 5

THE PROPERTIES

(DIVIDING BY I; DIVIDING O BY A NUMBER; DIVIDING A NUMBER BY ITSELF; IMPOSSIBLE TO DIVIDE BY 0)

56 ÷ 7

FACT FAMILIES

FLUENCY IS

EFFICIENCY

ACCURACY

FYEXIBIYITY

DIVIDING A NUMBER BY ITS HALF

14÷7

EXPLORING EQUAL GROUPS AND ARRAYS (DIVYING UP BY

BY MORE THAN I)

12 ÷ 6

ET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

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About the Dr. Nicki Newton

Dr. Nicki Newton is an education consultant who works with

schools and districts around the country and Canada on k-8 math curriculum. She has taught elementary school, middle school, and graduate school. Dr Nicki has an Ed.M. and an Ed.D from Teachers, College Columbia University. She is greatly interested in teaching and learning practices around the world and has researched education in Denmark, Guatemala and India. She has written several books, including being a part of the curriculum team for the new McGraw Hill Reveal Math series. She is currently working on a book about counting.

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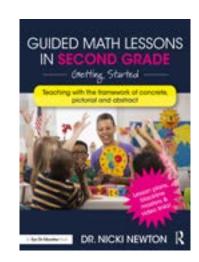


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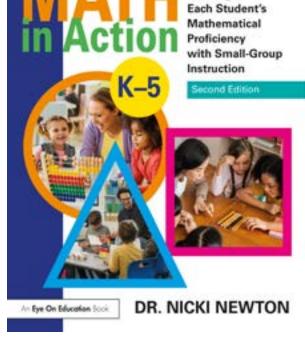
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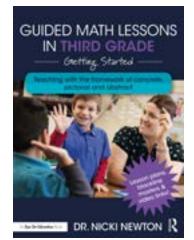




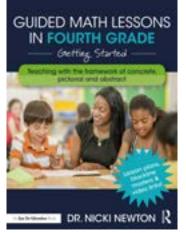
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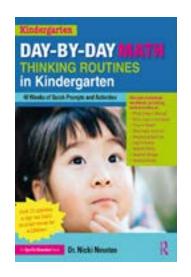


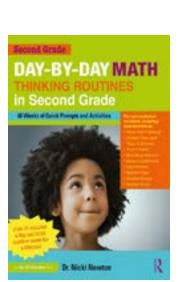


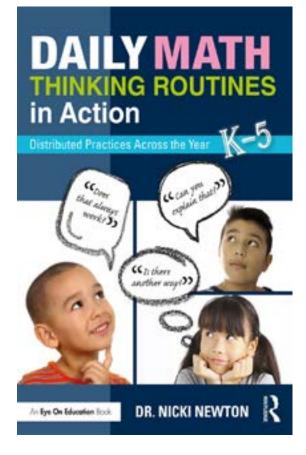
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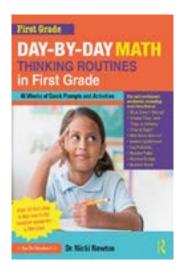


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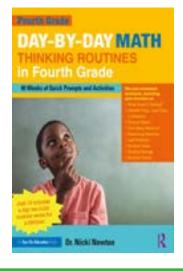


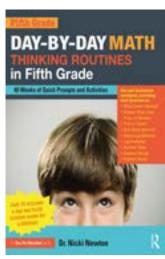






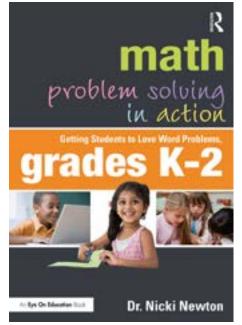






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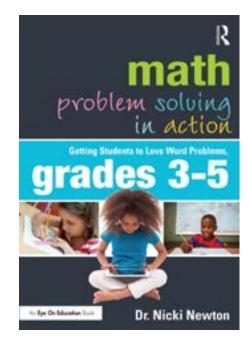






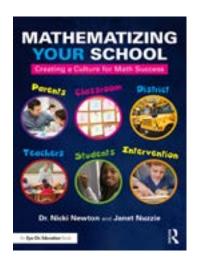


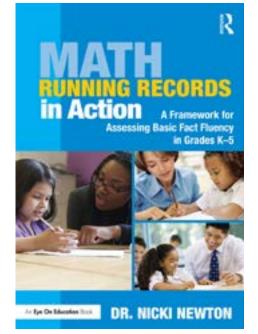


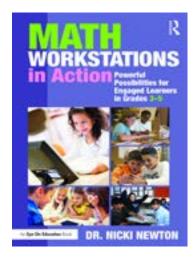


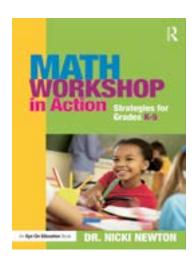


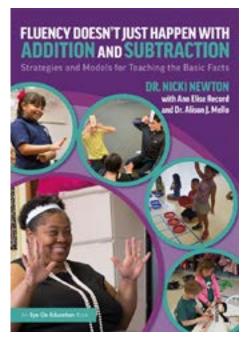
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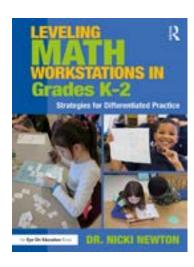


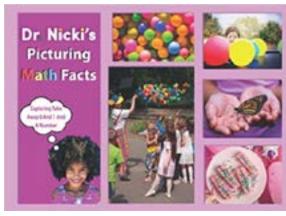


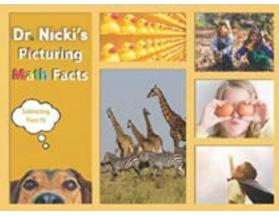












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