Year 1 - 6

# Calculation Policy Addition and Subtraction

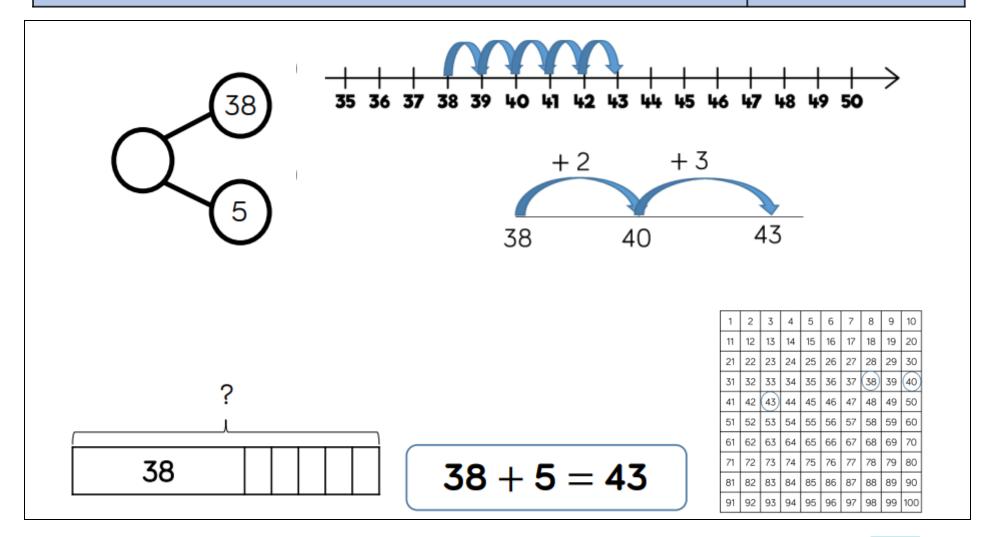
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Skill	Year	Representations and models		
Add two 2-digit numbers	2	Part-whole model Bar model Number lines (blank) Straws	Base 10 Place value counters	
Add with up to 3-digits	3	Part-whole model Bar model	Base 10 Place value counters Column addition	
Add with up to 4-digits	4	Part-whole model Bar model	Base 10 Place value counters Column addition	
Add with more than 4 digits	5	Part-whole model Bar model	Place value counters Column addition	
Add with up to 3 decimal places	5	Part-whole model Bar model	Place value counters Column addition	

#### Skill: Add 1-digit and 2-digit numbers to 100

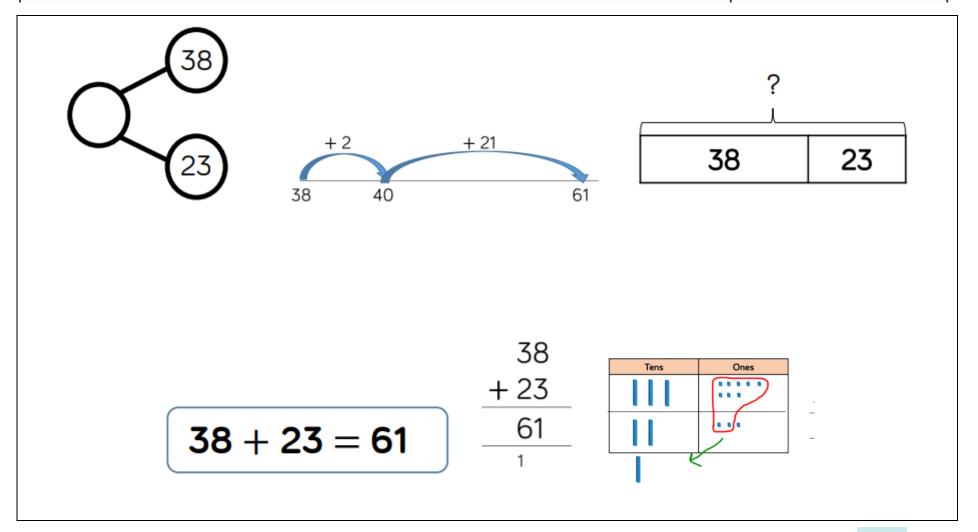
Year: 2/3





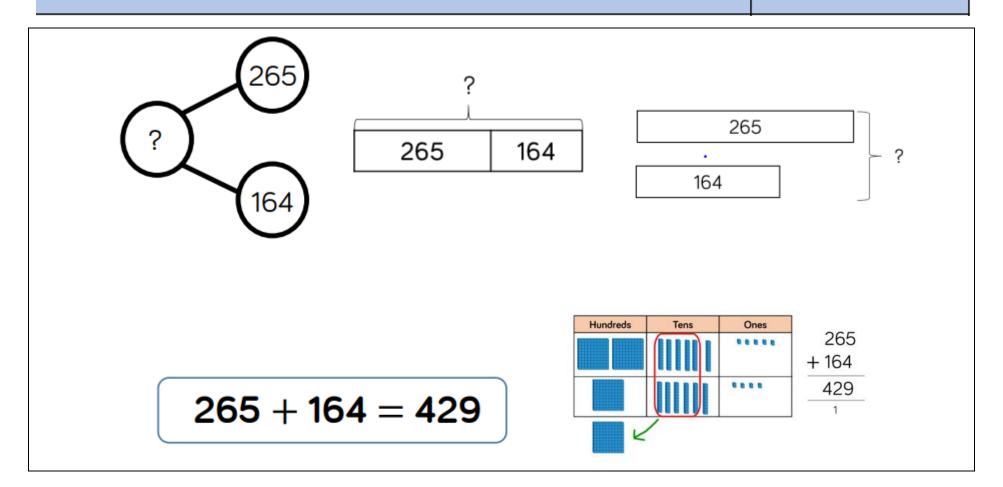
#### Skill: Add two 2-digit numbers to 100

Year: 2/3



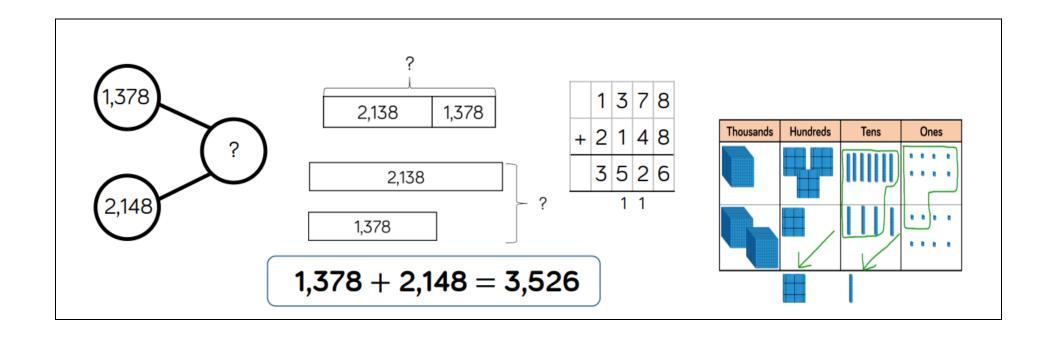


#### Skill: Add numbers with up to 3 digits



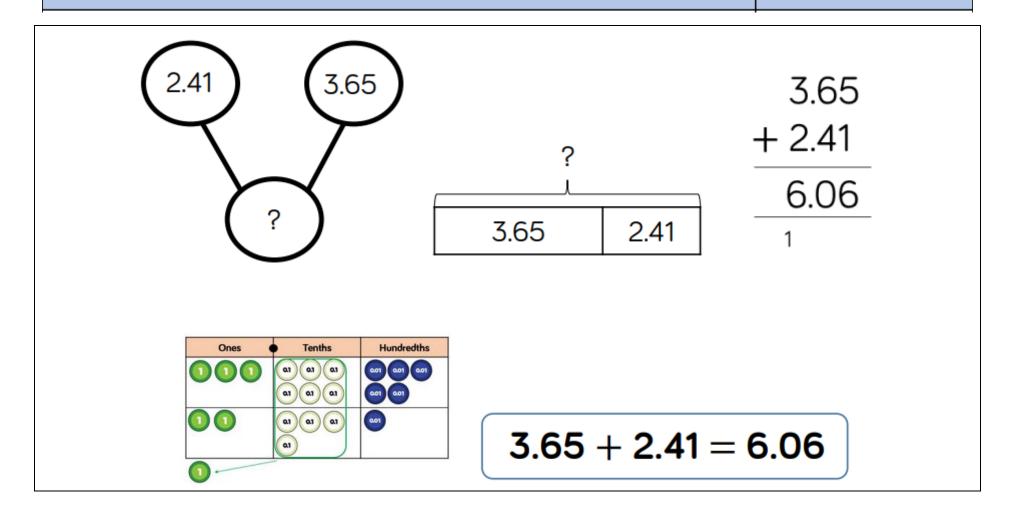


#### Skill: Add numbers with up to 4 digits





#### Skill: Add with up to 3 decimal places





### **Subtraction**

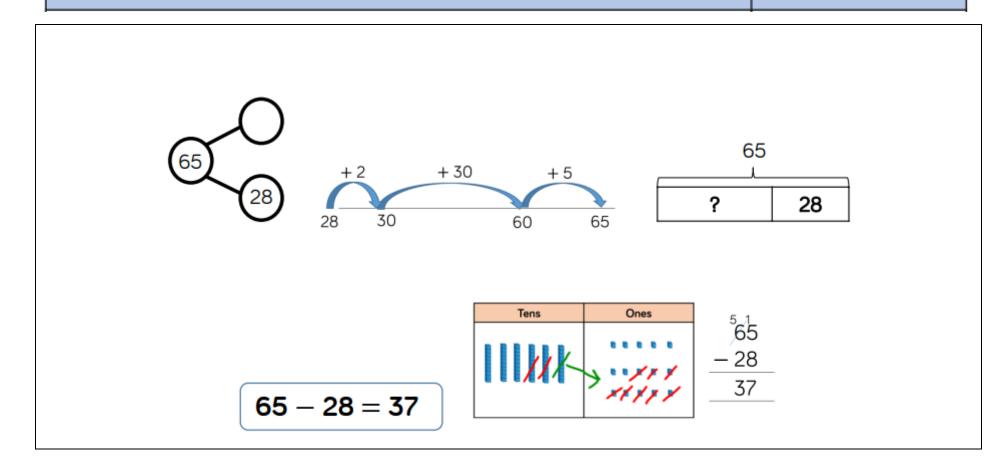


Skill	Year	Representations and models		
Subtract with up to 3- digits	3	Part-whole model Bar model	Base 10 Place value counters Column subtraction	
Subtract with up to 4- digits	4	Part-whole model Bar model	Base 10 Place value counters Column subtraction	
Subtract with more than 4 digits	5	Part-whole model Bar model	Place value counters Column subtraction	
Subtract with up to 3 decimal places	5	Part-whole model Bar model	Place value counters Column subtraction	



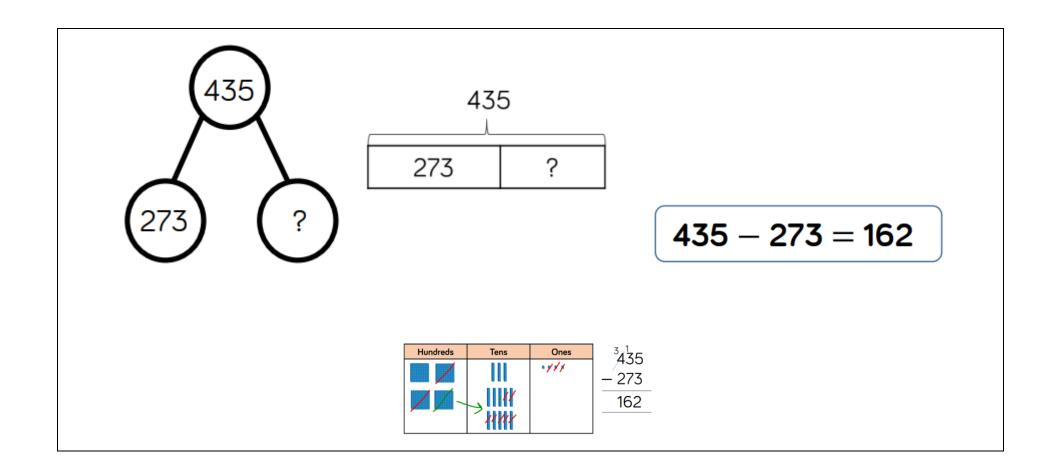
#### Skill: Subtract 1 and 2-digit numbers to 100

Year: 2/3



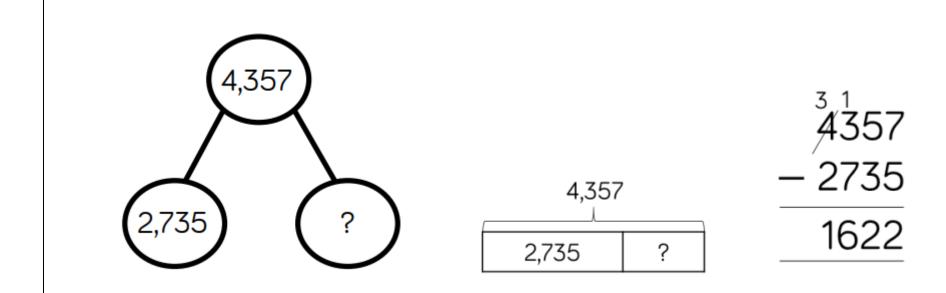


#### Skill: Subtract numbers with up to 3 digits





#### Skill: Subtract numbers with up to 4 digits



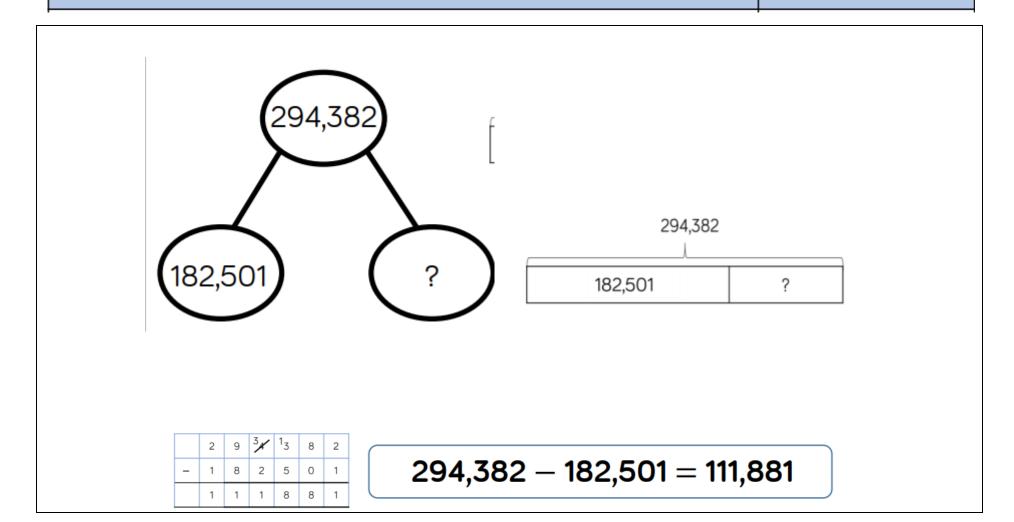
Thousands	Hundreds	Tens	Ones
		11///	1177
× ,			
$\rightarrow$			

$$4,357 - 2,735 = 1,622$$



#### Skill: Subtract numbers with more than 4 digits

Year: 5/6





Skill: Subtract with up to 3 decimal places

Year: 5/6

$$5.43 - 2.7 = 2.73$$



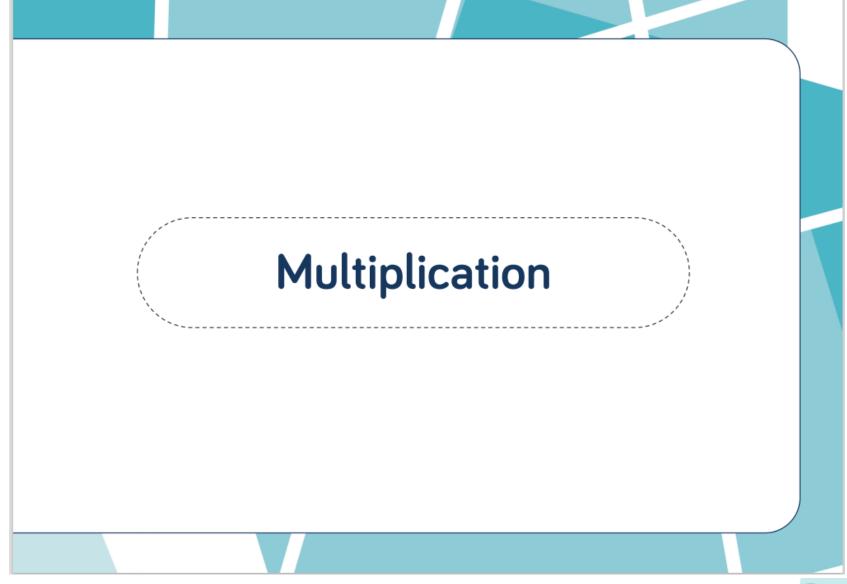
Year 1 - 6

## Calculation Policy Multiplication and Division

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Skill	Year	Representatio	ns and models
Multiply 2-digit by 1- digit numbers	3/4	Place value counters Base 10	Expanded written method Short written method
Multiply 3-digit by 1- digit numbers	4	Place value counters Base 10	Short written method
Multiply 4-digit by 1- digit numbers	5	Place value counters	Short written method
Multiply 2-digit by 2- digit numbers	5	Place value counters Base 10	Short written method Grid method
Multiply 2-digit by 3- digit numbers	5	Place value counters	Short written method Grid method
Multiply 2-digit by 4- digit numbers	5/6	Formal written method	



Skill: Multiply 2-digit numbers by 1-digit numbers

Y	ea	r:	3/	4

	н	Т	0	
		3	4	
×			5	
		2	0	(5 × 4)
+	1	5	0	(5 × 30)
	1	7	0	

	н	Т	0	
		3	4	
×			5	
	1	7	0	
	1	2		

$$34 \times 5 = 170$$



#### Skill: Multiply 3-digit numbers by 1-digit numbers

Year: 4

	Н	Т	О
	2	4	5
×			4
	9	8	0
	1	2	

 $245 \times 4 = 980$ 



#### Skill: Multiply 4-digit numbers by 1-digit numbers

	Th	Н	Т	0
	1	8	2	6
×				3
	5	4	7	8
	2		1	

$$1,826 \times 3 = 5,478$$



Skill: Multiply 2-digit numbers by 2-digit numbers

Year: 5

	Н	Т	0
		2	2
×		3	1
		2	2
	6	6	0
	6	8	2

$$22 \times 31 = 682$$

Skill: Multiply 3-digit numbers by 2-digit numbers

Year: 5

 $234 \times 32 = 7,488$ 



#### Skill: Multiply 4-digit numbers by 2-digit numbers

TTh	Th	Н	Т	0
	2	7	3	9
×			2	8
2	1	9	1 7	2
5 1	4	7 1	8	0
7	6	6	9	2

1

$$2,739 \times 28 = 76,692$$



Year: 5/6

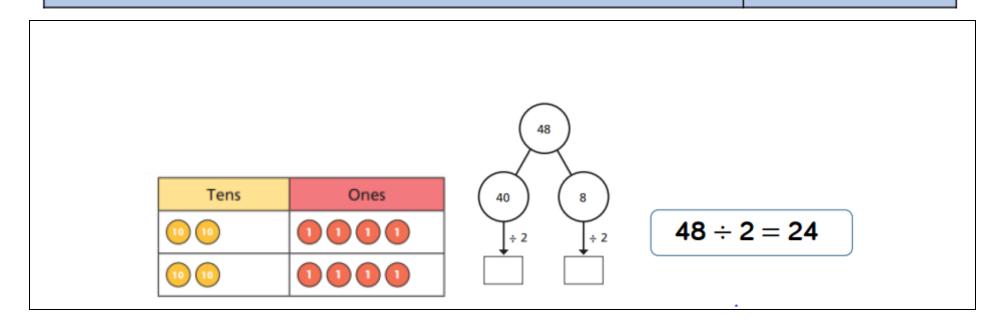




Skill	Year	Representations and models	
Divide 2-digits by 1- digit (no exchange sharing)	3	Straws Base 10 Bar model	Place value counters Part-whole model
Divide 2-digits by 1- digit (sharing with exchange)	3	Straws Base 10 Bar model	Place value counters Part-whole model
Divide 2-digits by 1- digit (sharing with remainders)	3/4	Straws Base 10 Bar model	Place value counters Part-whole model
Divide 2-digits by 1- digit (grouping)	4/5	Place value counters Counters	Place value grid Written short division
Divide 3-digits by 1- digit (sharing with exchange)	4	Base 10 Bar model	Place value counters Part-whole model
Divide 3-digits by 1- digit (grouping)	4/5	Place value counters Counters	Place value grid Written short division
Divide 4-digits by 1- digit (grouping)	5	Place value counters Counters	Place value grid Written short division
Divide multi-digits by 2-digits (short division)	6	Written short division	List of multiples
Divide multi-digits by 2-digits (long division)	6	Written long division	List of multiples

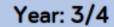


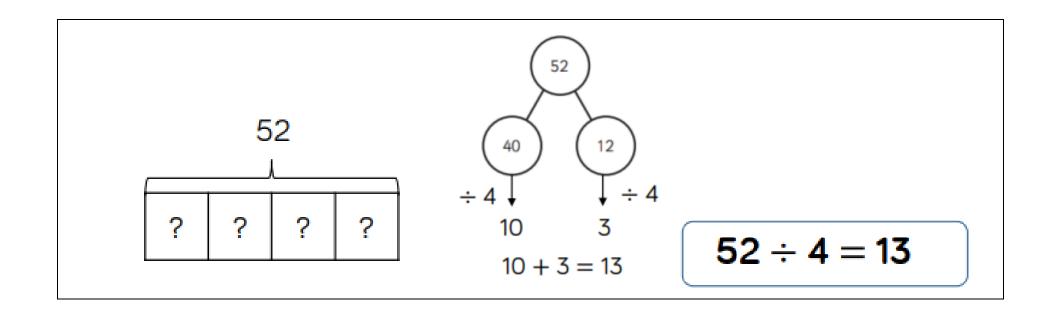
#### Skill: Divide 2-digits by 1-digit (sharing with no exchange)





Skill: Divide 2-digits by 1-digit (sharing with exchange)

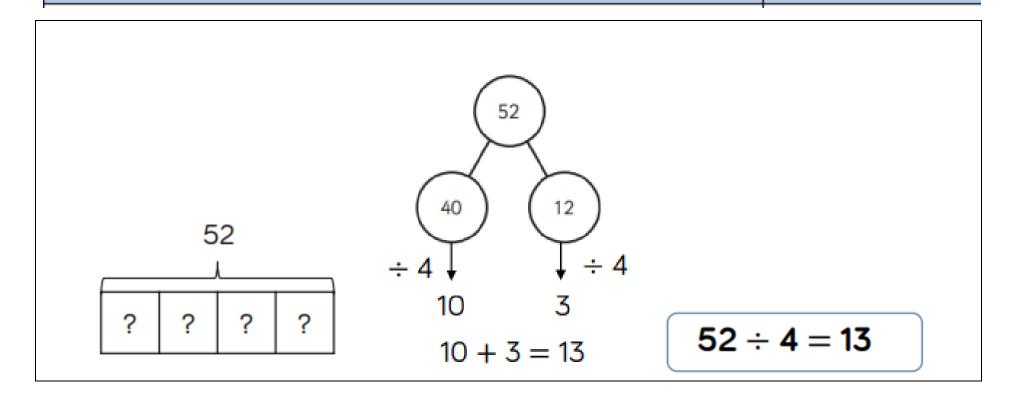






#### Skill: Divide 2-digits by 1-digit (sharing with exchange)

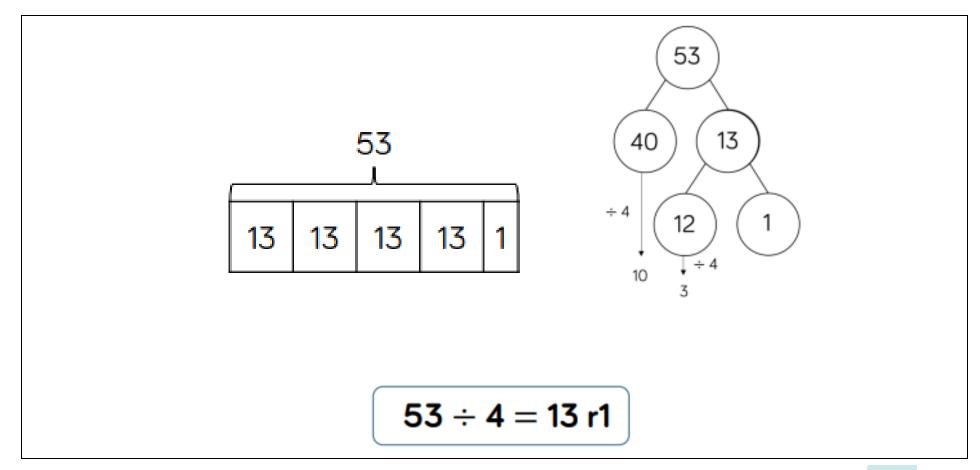
Year: 3/4



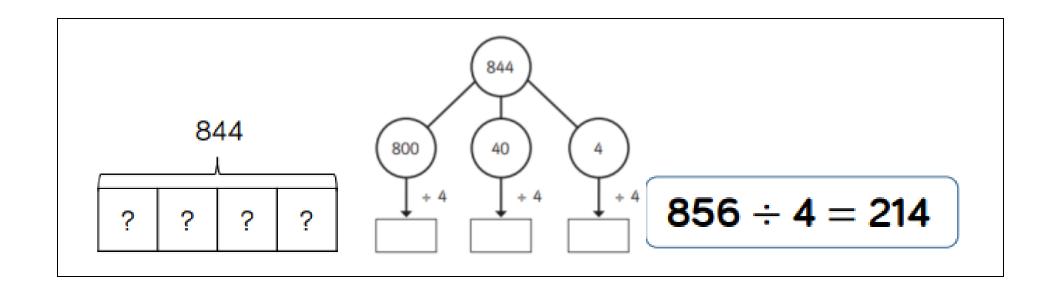


#### Skill: Divide 2-digits by 1-digit (sharing with remainders)

Year: 3/4



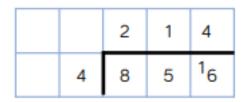
#### Skill: Divide 3-digits by 1-digit (sharing)





#### Skill: Divide 3-digits by 1-digit (grouping)

Year: 5



$$856 \div 4 = 214$$

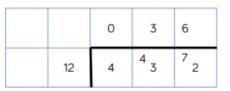
#### Skill: Divide 4-digits by 1-digit (grouping)

$$8,532 \div 2 = 4,266$$

$$432 \div 12 = 36$$



Year: 6



$$432 \div 12 = 36$$

#### Skill: Divide multi-digits by 2-digits (long division)

