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Subtraction Strategies - Year 3

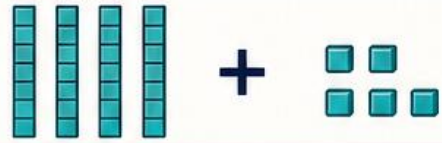
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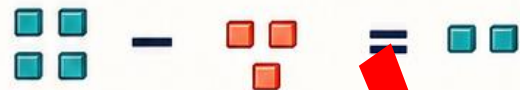
Split Strategy

Partition each number into place-value parts.

1. Split the tens and ones.



2. Subtract the ones.



3. Subtract the tens.



4. Add the parts back together.



$$74 - 32 = ?$$



-



-

2



4

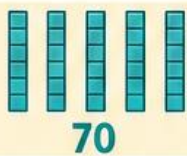
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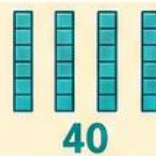
$$4 - 2 = 2$$



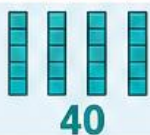
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=



$$70 - 30 = 40$$



+

2

=



$$40 + 2 = 42$$

$$74 - 32 = 42$$

Jump Strategy

Keep the larger number and jump backwards in manageable parts.

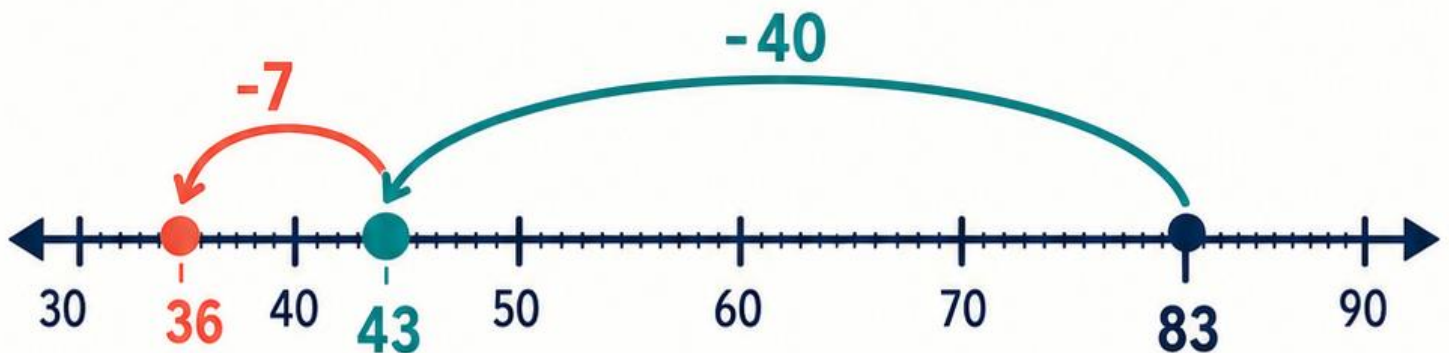
1. Start at the larger number.
2. Partition the number you are subtracting.
3. Jump back the tens.
4. Jump back the ones.

$$83 - 47 = ?$$

$$83 \rightarrow 43 \quad (-40)$$

$$43 \rightarrow 36 \quad (-7)$$

$$83 - 47 = 36$$



Compensation Strategy

Change one number to make a friendly calculation, then compensate.



Choose a nearby friendly number.



Subtract using the friendly number.



Undo the adjustment.

$$64 - 29 = ?$$

29 is 1 less than 30.

$$64 - 30 = 34$$

$$34 + 1 = 35$$

$$64 - 29 = 35$$

Written Algorithm

Line up place values and subtract from right to left.

1. Line up the tens and ones.

$$83 - 56 = ?$$

Regroup 83 as 7 tens and 13 ones.

T	O
7	13
- 5	6
2	7

2. Start with the ones.

3. Regroup when there are not enough ones.

$$\rightarrow 13 - 6 = 7$$

4. Subtract the tens.

$$\rightarrow 7 \text{ tens} - 5 \text{ tens} = 2 \text{ tens}$$

$$= 83 - 56 = 27$$

Subtraction Strategy Toolkit

SPLIT

Partition both numbers.
Subtract matching place-value
parts. Add the parts.

	Tens	Ones
74	70	4
- 32	30	2
	40	2
	↓	↓
	40 + 2 = 42	

Example: $74 - 32 = 40 + 2 = 42$

JUMP

Keep the larger number.
Jump back the amount
being subtracted.



Example: $83 - 47 = 83 - 40 - 7 = 36$

COMPENSATE

Use a friendly number,
then undo the adjustment.

30

$$64 - 30 = 34$$

$$34 + 1 = 35$$

Example: $64 - 29 = 64 - 30 + 1 = 35$

WRITTEN ALGORITHM

Line up place values.
Subtract from right to left
and regroup if needed.

Tens	Ones
8	3
- 5	6
2	7

Example: $83 - 56 = 27$

Name: _____

Split Strategy: Build the Parts

Partition each number into tens and ones. Subtract matching parts, then recombine.

1. $74 - 32 =$

Tens: _____

Ones: _____

Answer: _____

2. $86 - 41 =$

Tens: _____

Ones: _____

Answer: _____

3. $95 - 23 =$

Tens: _____

Ones: _____

Answer: _____

4. $67 - 34 =$

Tens: _____

Ones: _____

Answer: _____

5. $51 - 26 =$

Tens: _____

Ones: _____

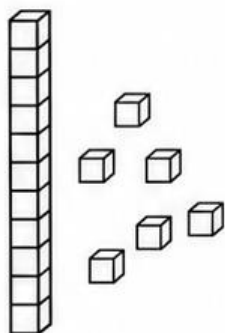
Answer: _____

6. $79 - 45 =$

Tens: _____

Ones: _____

Answer: _____



Tens	Ones

-

T	O

Name: ANSWERS

Split Strategy: Build the Parts

Partition each number into tens and ones. Subtract matching parts, then recombine.

1. $74 - 32 =$

Tens: $70 - 30 = 40$

Ones: $4 - 2 = 2$

Answer: 42

2. $86 - 41 =$

Tens: $80 - 40 = 40$

Ones: $6 - 1 = 5$

Answer: 45

3. $95 - 23 =$

Tens: $90 - 20 = 70$

Ones: $5 - 3 = 2$

Answer: 72

4. $67 - 34 =$

Tens: $60 - 30 = 30$

Ones: $7 - 4 = 3$

Answer: 33

5. $58 - 26 =$

Tens: $50 - 20 = 30$

Ones: $8 - 6 = 2$

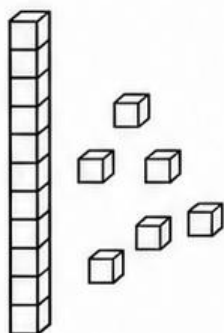
Answer: 32

6. $79 - 45 =$

Tens: $70 - 40 = 30$

Ones: $9 - 5 = 4$

Answer: 34



Tens	Ones

-

T	O

Name: _____

Split Strategy: Hundreds Challenge

Partition into hundreds, tens and ones. Subtract matching parts, then recombine.

1. $348 - 126 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

2. $576 - 243 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

3. $735 - 412 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

4. $664 - 321 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

5. $957 - 534 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

6. $682 - 261 =$

Hundreds: _____

Tens: _____

Ones: _____

Answer: _____

Name: **ANSWERS**

Split Strategy: Hundreds Challenge

Partition into hundreds, tens and ones. Subtract matching parts, then recombine.

1. **$348 - 126 =$**

Hundreds: **$300 - 100 = 200$**

Tens: **$40 - 20 = 20$**

Ones: **$8 - 6 = 2$**

Answer: **222**

2. **$576 - 243 =$**

Hundreds: **$500 - 200 = 300$**

Tens: **$70 - 40 = 30$**

Ones: **$6 - 3 = 3$**

Answer: **333**

3. **$735 - 412 =$**

Hundreds: **$700 - 400 = 300$**

Tens: **$30 - 10 = 20$**

Ones: **$5 - 2 = 3$**

Answer: **323**

4. **$864 - 321 =$**

Hundreds: **$800 - 300 = 500$**

Tens: **$60 - 20 = 40$**

Ones: **$4 - 1 = 3$**

Answer: **543**

5. **$957 - 534 =$**

Hundreds: **$900 - 500 = 400$**

Tens: **$50 - 30 = 20$**

Ones: **$7 - 4 = 3$**

Answer: **423**

6. **$682 - 261 =$**

Hundreds: **$600 - 200 = 400$**

Tens: **$80 - 60 = 20$**

Ones: **$2 - 1 = 1$**

Answer: **421**

Name: _____

Jump Strategy: Number Line Jumps

Start at the larger number. Jump back the tens, then the ones.

1. $83 - 47 =$

Start:

Jumps:

Answer:



2. $92 - 58 =$

Start:

Jumps:

Answer:



3. $76 - 39 =$

Start:

Jumps:

Answer:



4. $65 - 28 =$

Start:

Jumps:

Answer:



5. $88 - 54 =$

Start:

Jumps:

Answer:



6. $71 - 46 =$

Start:

Jumps:

Answer:



Name: **ANSWERS**

Jump Strategy: Number Line Jumps

Start at the larger number. Jump back the tens, then the ones.

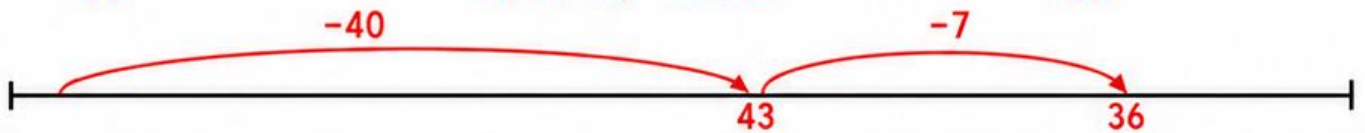
1. $83 - 47 =$

Start:
83

Jumps:

-40 to 43, -7 to 36

Answer:
36



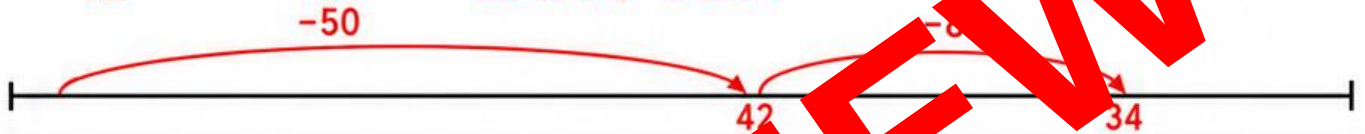
2. $92 - 58 =$

Start:
92

Jumps:

-50 to 42, -8 to 34

Answer:
34



3. $76 - 39 =$

Start:
76

Jumps:

-30 to 46, -9 to 37

Answer:
37



4. $65 - 28 =$

Start:
65

Jumps:

-20 to 45, -8 to 37

Answer:
37



5. $88 - 54 =$

Start:
88

Jumps:

-50 to 38, -4 to 34

Answer:
34



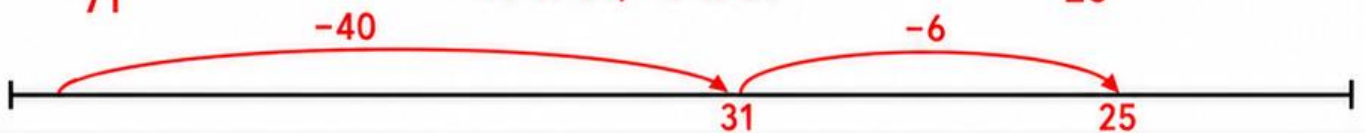
6. $71 - 46 =$

Start:
71

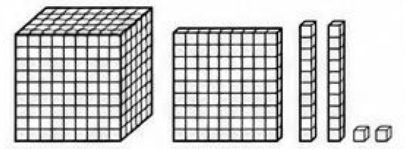
Jumps:

-40 to 31, -6 to 25

Answer:
25



Name: _____



Jump Strategy: Efficient Jumps

Use efficient backward jumps. Show each jump and label your landing numbers.

1. $438 - 156 =$

Partition:

Jumps:

Answer:

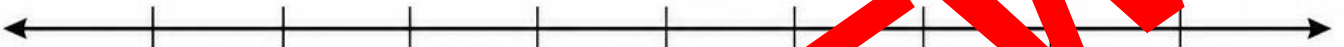


2. $725 - 248 =$

Partition:

Jumps:

Answer:



3. $641 - 327 =$

Partition:

Jumps:

Answer:

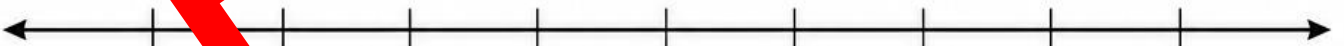


4. $903 - 468 =$

Partition:

Jumps:

Answer:

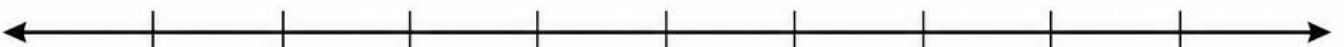


5. $582 - 269 =$

Partition:

Jumps:

Answer:

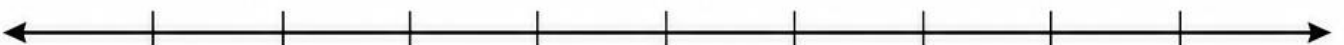


6. $754 - 386 =$

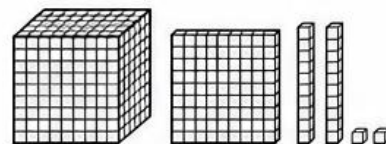
Partition:

Jumps:

Answer:



Name: **ANSWERS**



Jump Strategy: Efficient Jumps

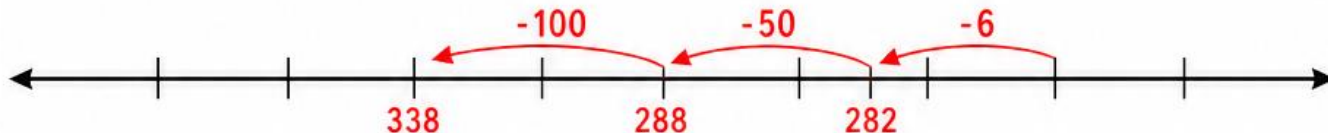
Use efficient backward jumps. Show each jump and label your landing numbers.

1. $438 - 156 =$

Partition:
 $100 + 50 + 6$

Jumps:
 $438 \rightarrow 338 \rightarrow 288 \rightarrow 282$

Answer:
282

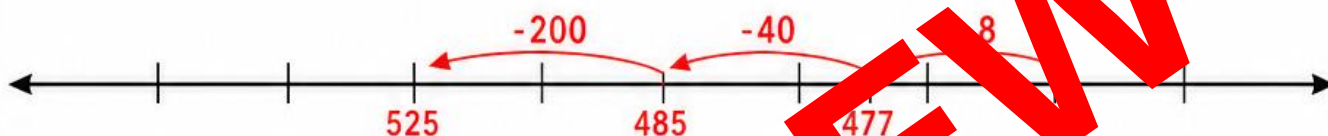


2. $725 - 248 =$

Partition:
 $200 + 40 + 8$

Jumps:
 $725 \rightarrow 525 \rightarrow 485 \rightarrow 477$

Answer:
477



3. $641 - 327 =$

Partition:
 $300 + 20 + 7$

Jumps:
 $641 \rightarrow 341 \rightarrow 321 \rightarrow 314$

Answer:
314

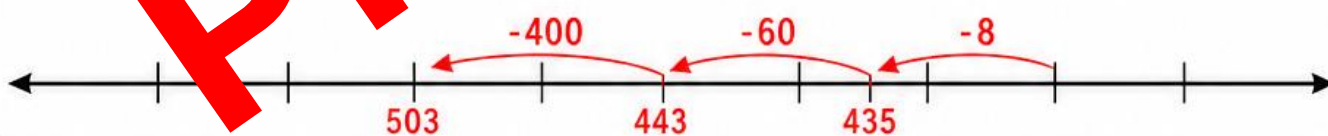


4. $903 - 468 =$

Partition:
 $400 + 60 + 8$

Jumps:
 $903 \rightarrow 503 \rightarrow 443 \rightarrow 435$

Answer:
435



5. $582 - 269 =$

Partition:
 $200 + 60 + 9$

Jumps:
 $582 \rightarrow 382 \rightarrow 322 \rightarrow 313$

Answer:
313



6. $754 - 386 =$

Partition:
 $300 + 80 + 6$

Jumps:
 $754 \rightarrow 454 \rightarrow 374 \rightarrow 368$

Answer:
368



Name: _____

Compensation Strategy: Friendly Numbers

Subtract a nearby friendly number, then adjust to keep the difference equal.

1. $72 - 29 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

2. $85 - 39 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

3. $93 - 48 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

4. $164 - 99 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

5. $278 - 198 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

6. $346 - 197 =$

Friendly subtraction: _____

Adjustment: _____

Answer: _____

PREVIEW

Name: **ANSWERS**

Compensation Strategy: Friendly Numbers

Subtract a nearby friendly number, then adjust to keep the difference equal.

1. $72 - 29 =$

Friendly subtraction: $72 - 30 = 42$

Adjustment: $42 + 1 = 43$

Answer: 43

2. $85 - 39 =$

Friendly subtraction: $85 - 40 = 45$

Adjustment: $45 + 1 = 46$

Answer: 46

3. $93 - 48 =$

Friendly subtraction: $93 - 50 = 43$

Adjustment: $43 + 2 = 45$

Answer: 45

4. $164 - 99 =$

Friendly subtraction: $164 - 100 = 64$

Adjustment: $64 + 1 = 65$

Answer: 65

5. $278 - 198 =$

Friendly subtraction: $278 - 200 = 78$

Adjustment: $78 + 2 = 80$

Answer: 80

6. $346 - 197 =$

Friendly subtraction: $346 - 200 = 146$

Adjustment: $146 + 3 = 149$

Answer: 149

Name: _____

Written Algorithm: Regroup and Subtract

Set out each subtraction vertically. Regroup when needed, then check your answer.

1. $83 - 47 =$

T	O

Answer: _____

2. $92 - 58 =$

T	O

Answer: _____

3. $304 - 178 =$

H	T	O

Answer: _____

4. $212 - 287 =$

H	T	O

Answer: _____

5. $700 - 456 =$

H	T	O

Answer: _____

6. $842 - 369 =$

H	T	O

Answer: _____

Name: ANSWERS

Written Algorithm: Regroup and Subtract

Set out each subtraction vertically. Regroup when needed, then check your answer.

1. $83 - 47 =$

T	O
7	13
8	3
- 4	7
3	6

Answer: 36

2. $92 - 58 =$

T	O
8	12
9	2
- 5	8
3	4

Answer: 34

3. $304 - 178 =$

H	T	O
2	9	14
3	0	4
- 1	7	8
1	2	6

Answer: 126

4. $521 - 287 =$

H	T	O
5	11	11
6	2	1
- 2	8	7
3	3	4

Answer: 334

5. $700 - 456 =$

H	T	O
6	9	10
7	0	0
- 4	5	6
2	4	4

Answer: 244

6. $842 - 369 =$

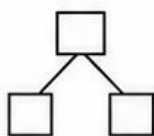
H	T	O
7	13	12
8	4	2
- 3	6	9
4	7	3

Answer: 473

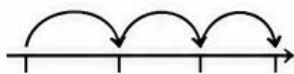
Name: _____

Choose a Subtraction Strategy

Choose the most efficient strategy. Show your working and explain your choice.



Split



Jump



Compensation



Written algorithm

1. $74 - 32 =$

Strategy:

Working:

Answer:

2. $83 - 47 =$

Strategy:

Working:

Answer:

3. $64 - 29 =$

Strategy:

Working:

Answer:

4. $82 - 56 =$

Strategy:

Working:

Answer:

5. $345 - 123 =$

Strategy:

Working:

Answer:

6. $502 - 298 =$

Strategy:

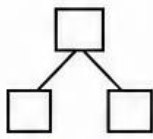
Working:

Answer:

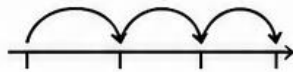
Name: **ANSWERS**

Choose a Subtraction Strategy

Choose the most efficient strategy. Show your working and explain your choice.



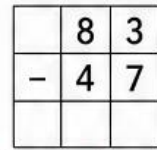
Split



Jump



Compensation



Written algorithm

1. $74 - 32 =$

Strategy:

Split

Working:

$$70 - 30 = 40$$

$$4 - 2 = 2$$

Answer: **42**

2. $83 - 47 =$

Strategy:

Jump

Working:

$$83 - 40 = 43$$

$$43 - 7 = 36$$

Answer: **36**

3. $64 - 29 =$

Strategy: **Compensation**

Working:

$$64 - 30 = 34$$

$$34 + 1 = 35$$

Answer: **35**

4. $82 - 56 =$

Strategy: **Written algorithm**

Working:

$$82 - 56 = 26$$

Answer: **26**

5. $345 - 123 =$

Strategy: **Split**

Working:

$$300 - 100 = 200$$

$$40 - 20 = 20$$

$$5 - 3 = 2$$

Answer: **222**

6. $502 - 298 =$

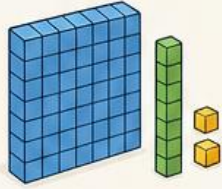
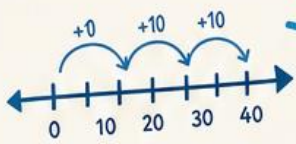
Strategy: **Compensation**

Working:

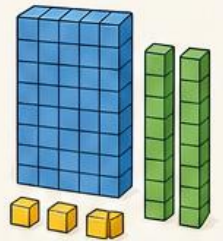
$$502 - 300 = 202$$

$$202 + 2 = 204$$

Answer: **204**

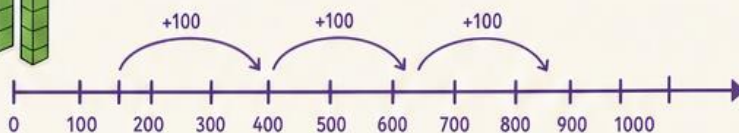
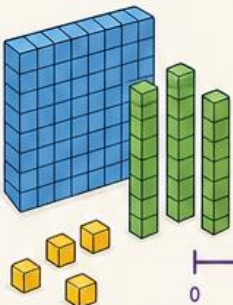
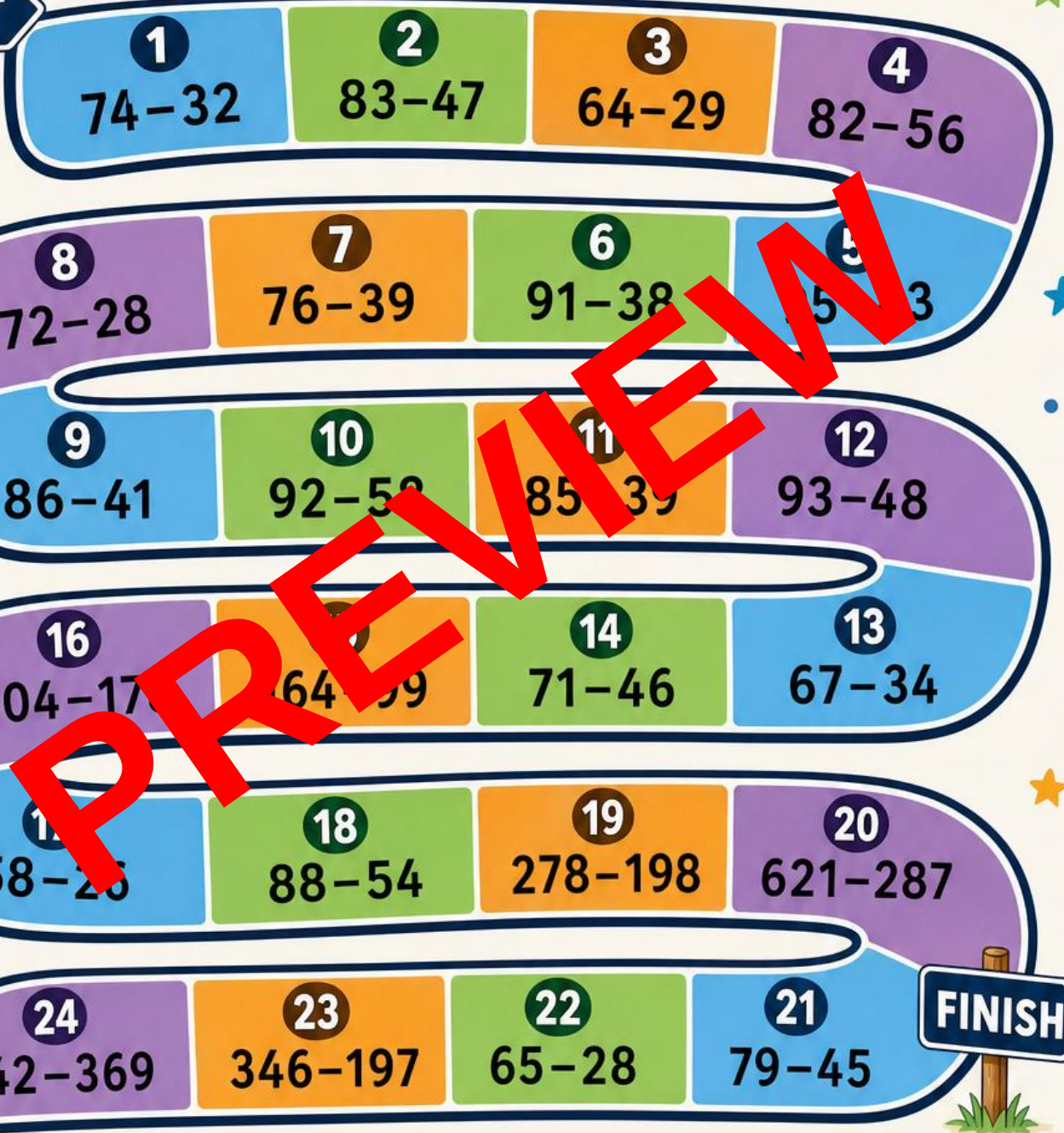


Subtraction Strategy Trail



H	T	O
3	4	6

Choose a strategy. Show your working. Move along the trail!



- blue = Split
- orange = Compensation
- green = Jump
- purple = Written algorithm

H	T	O
5	7	2



Name: _____

Partner: _____

Subtraction Strategy Trail: Recording Sheet

Record each problem from the game board. Choose a strategy and show enough working to prove your answer.

Round	Problem	Strategy	Working	Answer
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

The strategy I used most was: _____

It was efficient because: _____

Name: _____

Date: _____

Subtraction Strategies Assessment

Section A — Use the named strategy

1. Split: $76 - 34 =$

2. Jump: $91 - 47 =$

3. Compensation: $84 - 29 =$

4. Written algorithm: $302 - 168 =$

Section B — Choose an efficient strategy

5. $645 - 223 =$ Strategy: _____

6. $504 - 298 =$ Strategy: _____

Section C — Reason and Apply

7. "Mia says $70 - 38 = 33$ because she subtracted 40. Is Mia correct? Explain and correct her thinking."

8. "A library had 256 books on a display. Students borrowed 178. How many books remain? Show your strategy."

Score: _____ / 20

Subtraction Strategies Assessment

Section A — Use the named strategy

1. Split: $76 - 34 =$

42. Show: $70 - 30 = 40$; $6 - 4 = 2$; $40 + 2 = 42$.

2. Jump: $91 - 47 =$

44. Show: $91 - 40 = 51$; $51 - 7 = 44$.

3. Compensation: $84 - 29 =$

55. Show: $84 - 30 = 54$; $54 + 1 = 55$.

4. Written algorithm: $302 - 168 =$

$$\begin{array}{r} 2 \quad 9 \\ 302 \\ - 168 \\ \hline 134 \end{array}$$

Section B — Choose an efficient strategy

5. $645 - 223 =$ Strategy: Split

600 - 200 = 400; $40 - 20 = 20$; $5 - 3 = 2$, answer 422.

6. $504 - 298 =$ Strategy: Compensation

$504 - 300 = 204$; $204 + 2 = 206$; Answer 206.

Section C — Reason and apply

7. "Mia says $73 - 38 = 33$ because she subtracted 40. Is Mia correct? Explain and correct her thinking."

No. Subtracting 40 gives 33, then add back 2 because 38 is 2 less than 40. $73 - 38 = 35$.

8. "A library had 256 books on a display. Students borrowed 178. How many books remain? Show your strategy."

$$\begin{array}{r} 256 \\ - 178 \\ \hline 78 \end{array}$$

$256 - 178 = 78$. 78 books remain.

SUBTRACTION STRATEGIES- YEAR 3 RUBRIC

Teacher Assessment Guide

Criteria	BEGINNING (1)	DEVELOPING (2)	ACHIEVING (3)	CONFIDENT (4)	EXCEEDING (5)
1. Strategy choice	Needs help to choose.	Chooses with support.	Chooses a suitable strategy.	Chooses efficiently and explains why.	Compares strategies and justifies the best choice.
2. Accuracy	Frequent calculation errors.	Some calculations correct.	Most calculations accurate.	Accurate and checks results.	Accurate, efficient and self-corrects.
3. Place-value working	Working is missing or unclear.	Shows some place-value steps.	Shows clear logical working.	Regroups or partitions accurately.	Uses concise, flexible working.
4. Mathematical explanation	Explanation is incomplete.	Uses some mathematical language.	Explains the strategy clearly.	Connects steps and representations.	Generalises and explains deeply.
5. Checking	Needs help to check.	Checks when prompted.	Uses addition or estimation to check.	Selects a useful check independently.	Uses more than one check and evaluates reasonableness.

Total: _____ / 25

Feedback: _____

Subtraction Strategies



A Flexible Subtraction Toolkit

A subtraction strategy is a plan for finding a difference.

We will use place value to make numbers easier to work with.

Our goal: choose a method that is accurate, clear and efficient.



Four Strategies

Split — subtract place-value parts.

Jump — move backwards on a number line.

Compensation — use a nearby friendly number, then adjust.

Written algorithm — align place values and regroup when needed.



Split Strategy

Partition each number into place-value parts.

Subtract matching parts.

Recombine the partial differences.



Split: Set Up $74 - 32$

Partition both numbers.

$$74 = 70 + 4$$

$$32 = 30 + 2$$

Now subtract tens from tens and ones from ones.



Split: Subtract the Parts

Tens: $70 - 30 = 40$

Ones: $4 - 2 = 2$

Keep each place-value part organised



Split: Recombine

$$40 + 2 = 42$$

Therefore, $74 - 32 = 42$.

Check: $42 + 32 = 74$.



Split with Three-Digit Numbers

$$348 - 126$$

$$348 = 300 + 40 + 8$$

$$126 = 100 + 20 + 6$$

Subtract matching hundreds, tens, and ones.



Split: Three-Digit Solution

$$300 - 100 = 200$$

$$40 - 20 = 20$$

$$8 - 6 = 2$$

$$200 + 20 + 2 = 222$$

$$348 - 126 = 222.$$



When Is Split Efficient?

Use split when each place-value part subtracts cleanly.

1. Partition.
2. Subtract matching parts.
3. Recombine.
4. Check with addition.



Jump Strategy

Start at the larger number.

Jump backwards by the amount being subtracted.

Partition the subtrahend into convenient jumps.



Jump: Set Up 83 – 11

Start at 83.

Partition 47 into $40 + 7$.

Plan two backwards jumps: -40 then -7 .



Jump the Tens, Then the Ones

$$83 - 40 = 43$$

$$43 - 7 = 36$$

Landing numbers show how the difference changes after each jump.



Jump: Solution and Check

$$83 - 47 = 36$$

Check with the inverse operation:

$$36 + 47 = 83.$$

The difference is correct.



Efficient Jumps: 438 - 156

Partition 156 into $100 + 50 + 6$.

$$438 - 100 = 338$$

$$338 - 50 = 288$$

$$288 - 6 = 282$$



Different Jumps, Same Difference

You may choose jumps that suit the numbers.

$438 \rightarrow 338 \rightarrow 288 \rightarrow 282$

Or bridge through a friendly number. Every jump still totals 156.



When Is Jump Efficient?

Use jump when you can count back in friendly chunks.

1. Start at the larger number.
2. Partition the amount removed.
3. Label each landing number.
4. Check the final difference.



Compensation Strategy

Replace the number being subtracted with a nearby friendly number.

Then adjust the result so the difference stays equal.



Compensation: Set Up $72 - 29$

29 is close to the friendly number 30.

Subtracting 30 removes 1 too many.

Plan to add 1 back afterwards.



Compensation: Solution

$$72 - 30 = 42$$

$$42 + 1 = 43$$

Therefore, $72 - 29 = 43$.



Compensation with Three Digits

$$278 - 198$$

198 is close to 200.

Subtracting 200 removes 2 too many, so add 2 back.



Three-Digit Compensation

$$278 - 200 = 78$$

$$78 + 2 = 80$$

Therefore, $278 - 198 = 80$.



When Is Compensation Efficient?

Use compensation when the subtrahend is close to a multiple of 10 or 100.

Subtract the friendly number.

Then add back the extra amount removed.



Written Algorithm

Write numbers vertically with matching place values aligned.

Subtract from the ones column first.

Regroup when a digit is too small to subtract.



Align the Place Values

$$\begin{array}{r} 83 \\ - 47 \\ \hline \end{array}$$

Tens sit under tens. Ones sit under ones.
Alignment keeps each place value accurate.



Regroup 83 – 47

3 ones cannot subtract 7 ones.

Regroup 1 ten as 10 ones.

83 becomes 7 tens and 13 ones



Complete the Algorithm

$$13 - 7 = 6 \text{ ones}$$

$$7 - 4 = 3 \text{ tens}$$

$$83 - 47 = 36$$

$$\text{Check: } 36 + 47 = 83$$



Align 304 – 178

$$\begin{array}{r} 304 \\ - 178 \\ \hline \end{array}$$

Hundreds, tens and ones must stay in their own columns.



Regroup Across a Zero

304 has 0 tens, so regroup in two steps.

$304 = 2 \text{ hundreds} + 10 \text{ tens} + 4 \text{ ones}$

Then regroup 1 ten:

$304 = 2 \text{ hundreds} + 9 \text{ tens} + 14 \text{ ones}$



Complete $304 - 178$

$$14 - 8 = 6 \text{ ones}$$

$$9 - 7 = 2 \text{ tens}$$

$$2 - 1 = 1 \text{ hundred}$$

$$304 - 178 = 126.$$



Compare the Four Strategies

Split: place-value parts subtract cleanly.

Jump: friendly backward chunks are easy to track.

Compensation: the subtrahend is near a friendly number.

Written algorithm: regrouping and compact recording are useful.



Choose an Efficient Strategy

74 – 32: split is efficient.

64 – 29: compensation is efficient.

83 – 47: jump or written algorithm works well.

302 – 168: written algorithm makes regrouping clear.

Can you justify a different strategy choice?



Review: Be a Flexible Mathematician

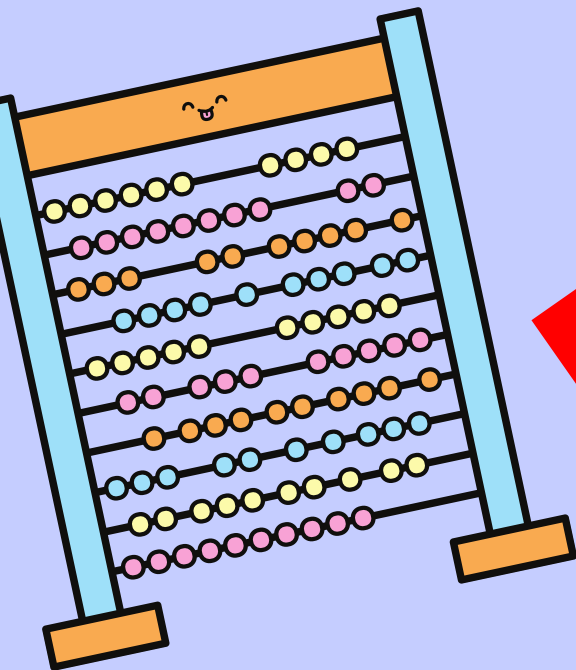
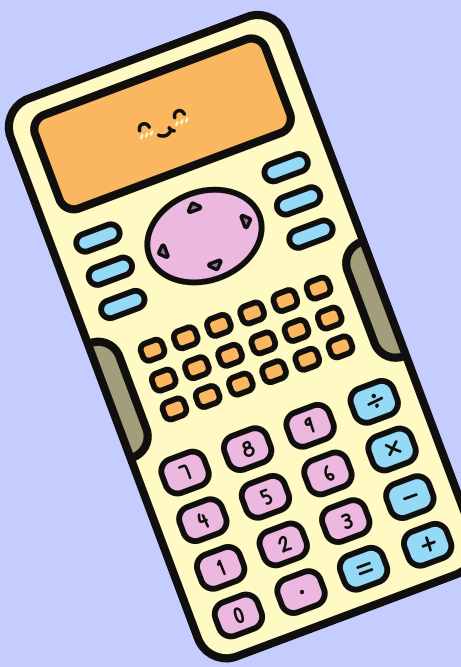
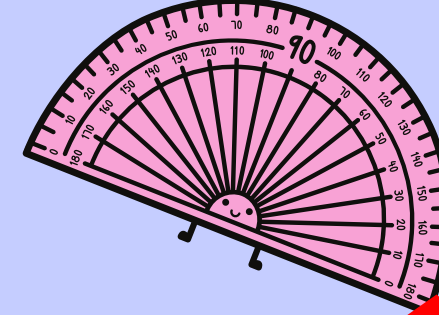
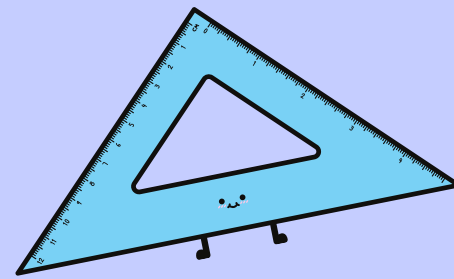
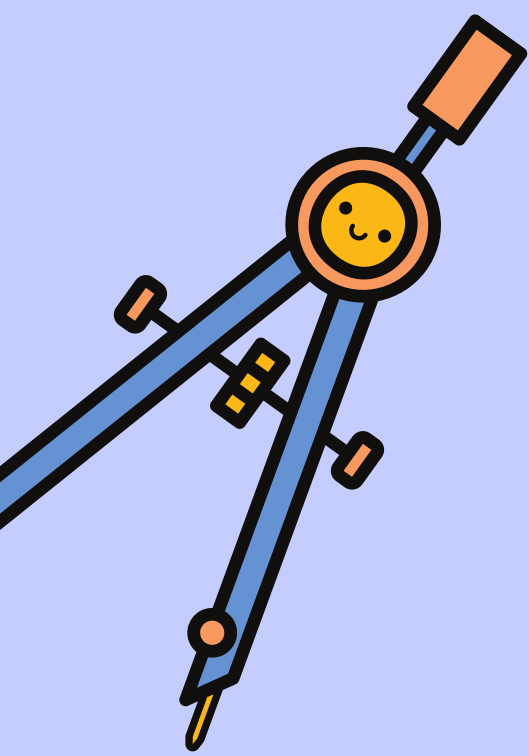
Look at the numbers before choosing.

Use place value. Show clear steps.

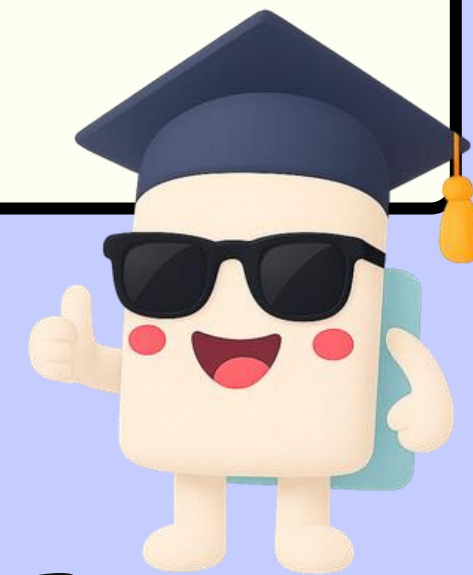
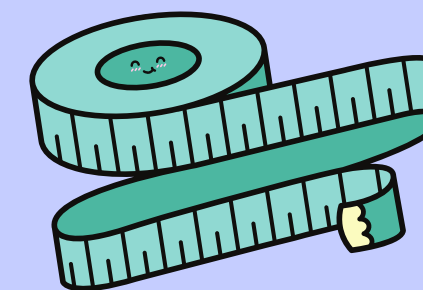
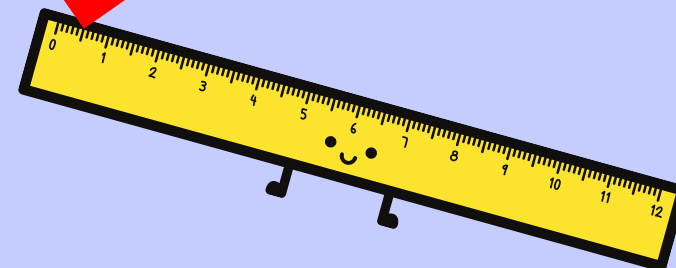
Check with addition or estimation.

The best strategy is the one you can explain and use accurately.





PREVIEW



Subtraction Strategies

Quiz



How to Play

Read each question carefully.

Questions include true/false, short-answer and four-option multiple choice.

Choose or use the requested strategy.

Show enough working to explain your thinking.

Pause before the next slide, then check the answer.



Question 1: True or False

True or false?

Using split strategy, $74 - 32 = 42$.

Be ready to justify your answer.



Answer 1

True.

$$74 = 70 + 4$$

$$32 = 30 + 2$$

$$70 - 30 = 40$$

$$4 - 2 = 2$$

$$40 + 2 = 42$$



Question 2: Multiple Choice

What is $348 - 126$?

- A. 212
- B. 222
- C. 232
- D. 242

Choose the correct answer.



Answer 2

B. 222

$$300 - 100 = 200$$

$$40 - 20 = 20$$

$$8 - 6 = 2$$

$$200 + 20 + 2 = 222$$



Question 3: Jump Strategy

Use jump strategy to solve $83 - 47$.

Write each backwards jump and landing number.



Answer 3

$$83 - 40 = 43$$

$$43 - 7 = 36$$

$$83 - 47 = 36$$



Question 4: Multiple Choice

What is $438 - 156$?

- A. 272
- B. 282
- C. 292
- D. 302

Choose the correct answer.



Answer 4

B. 282

$$156 = 100 + 50 + 6$$

$$438 - 100 = 338$$

$$338 - 50 = 288$$

$$288 - 6 = 282$$



Question 5: True or False

True or false?

To solve $72 - 29$, subtract 30 and then add 1.

Be ready to justify your answer.



Answer 5

True.

Use 30 as the friendly number.

$$72 - 30 = 42$$

$$42 + 1 = 43$$

$$72 - 29 = 43$$



Question 6: Compensation

Use compensation to solve $278 - 198$.

Explain why an adjustment is needed



Answer 6

198 is 2 less than 200.

$$278 - 200 = 78$$

$$78 + 2 = 80$$

$$278 - 198 = 80$$



Question 7: Multiple Choice

What is $83 - 47$?

- A. 26
- B. 36
- C. 46
- D. 56

Choose the correct answer.



Answer 7

B. 36

Regroup 83 as 7 tens and 13 ones.

$$13 - 7 = 6$$

$$7 - 4 = 3$$

$$83 - 47 = 36$$



Question 8: Written Algorithm

Use the written algorithm to solve $304 - 178$.

Show how you regroup across the zero.



Answer 8

$304 = 2 \text{ hundreds} + 9 \text{ tens} + 14 \text{ ones}$

$$14 - 8 = 6$$

$$9 - 7 = 2$$

$$2 - 1 = 1$$

$$304 - 178 = 126$$



Question 9: True or False

True or false?

Compensation is efficient for 502 – 298 because 298 is close to 500.



Answer 9

True.

$$502 - 300 = 202$$

$$202 + 2 = 204$$

Therefore, $502 - 298 = 204$.



Question 10: Apply

A library display held 256 books. Students borrowed 178.

How many books remain? Show an efficient strategy.

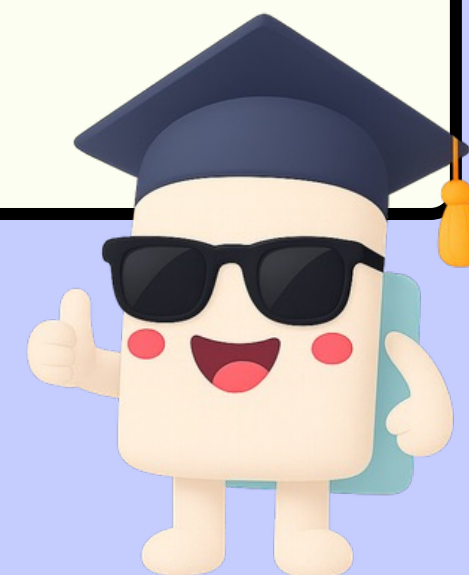
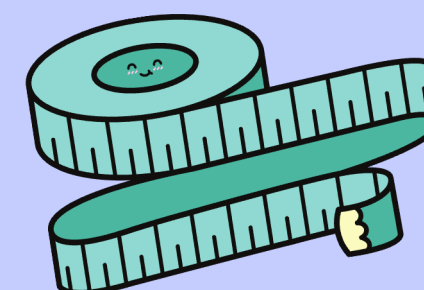
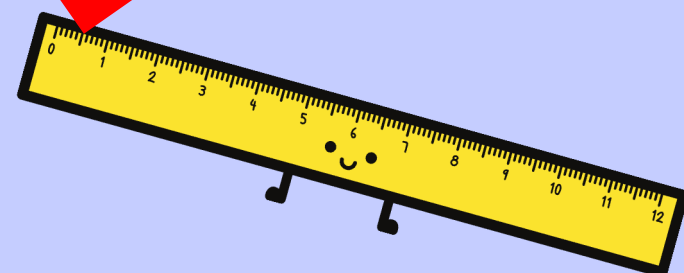
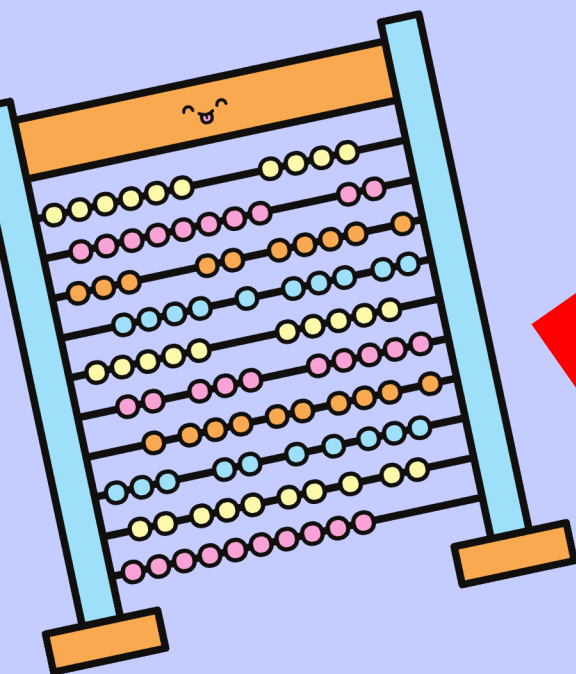
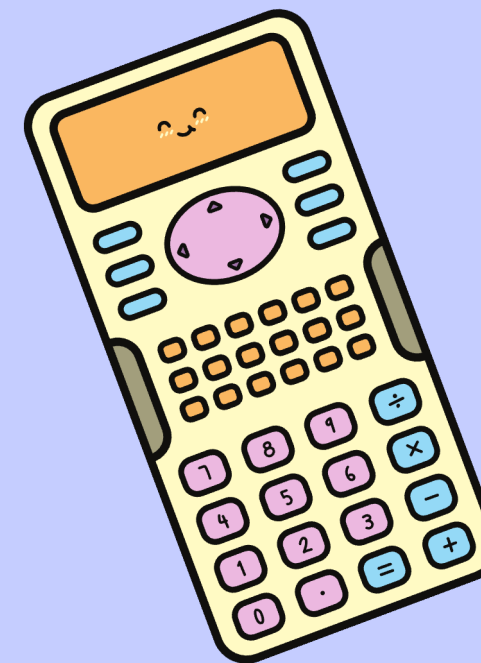
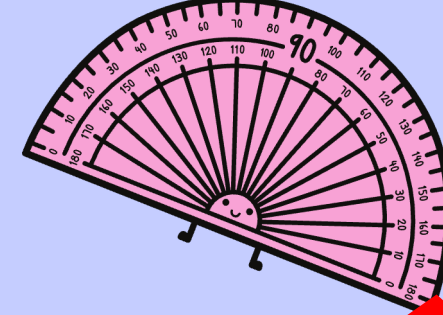
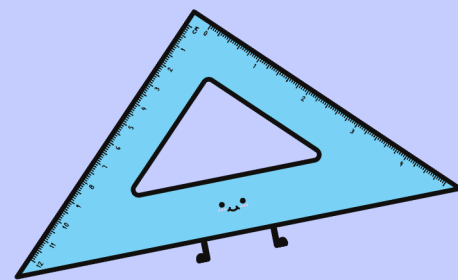
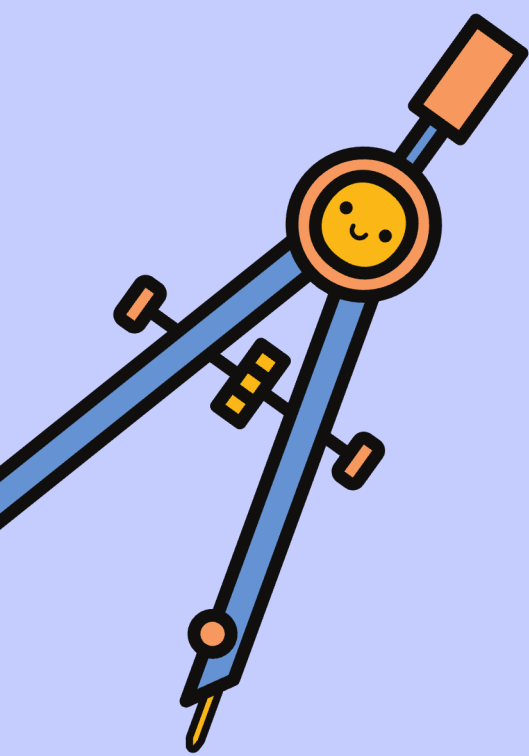


Answer 10

$$256 - 178 = 78$$

For example, regroup with the written algorithm.
78 books remain.





PREVIEW