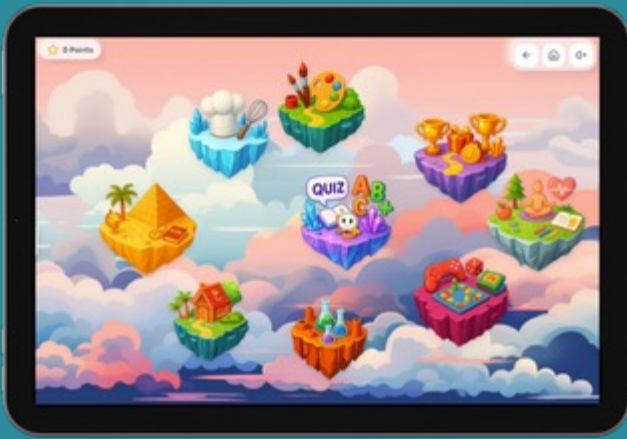


Sukindi

— LEARNING —

Homework without the hassle

Sukindi is an Australian learning platform that supports Teachers, Parents and Students with an interactive homework app and downloadable resources.



Scan to start your
free 7-day trial

www.sukindi.com.au



Addition with regrouping - Year 3

Table of Contents	
• Presentation: Addition with Regrouping	
• Classroom Displays: Two- and Three-Digit Addition	
• Game 1: Regrouping Race	
• Game 2: Match, Add and Check	
• Worksheet 1: Place Value Set-Up	
• Worksheet 2: Two-Digit Regrouping	
• Worksheet 3: Three-Digit Regrouping	
• Worksheet 4: Regrouping Word Problems	
• Worksheet 5: Missing Numbers and Error Hunt	
• Quiz: Addition with Regrouping	
• Assessment: Addition with Regrouping + Answers	
• Rubric: Addition with Regrouping	



Two-Digit Addition with Regrouping

1

STEP 1

Align the tens and ones.

T	O
4	7
+ 3	8

2

STEP 2

Add the ones: $7 + 8 = 15$.
Write 5 ones. Regroup 1 ten.

T	O
4	7
+ 3	8
	5

3

STEP 3

Add the tens: $1 + 4 + 3 = 8$.

T	O
1	7
4	8
+ 3	
8	5

4

STEP 4

$47 + 38 = 85$
Check: $50 + 40$ is about 90, so 85 is reasonable.

T	O
1	7
4	8
+ 3	
8	5

Three-Digit Addition with Regrouping

STEP 1

Align the hundreds, tens and ones.

H	T	O
2	6	8
+4	5	7

STEP 2

Add the ones: $8 + 7 = 15$.
Write 5 ones. Regroup 1 ten.

H	T	O
	1	0
2	6	8
+4	5	7
		5

STEP 3

Add the tens: $1 + 6 + 5 = 12$.
Write 2 tens. Regroup 1 hundred.

H	T	O
1	1	0
2	6	8
+4	5	7
	2	5

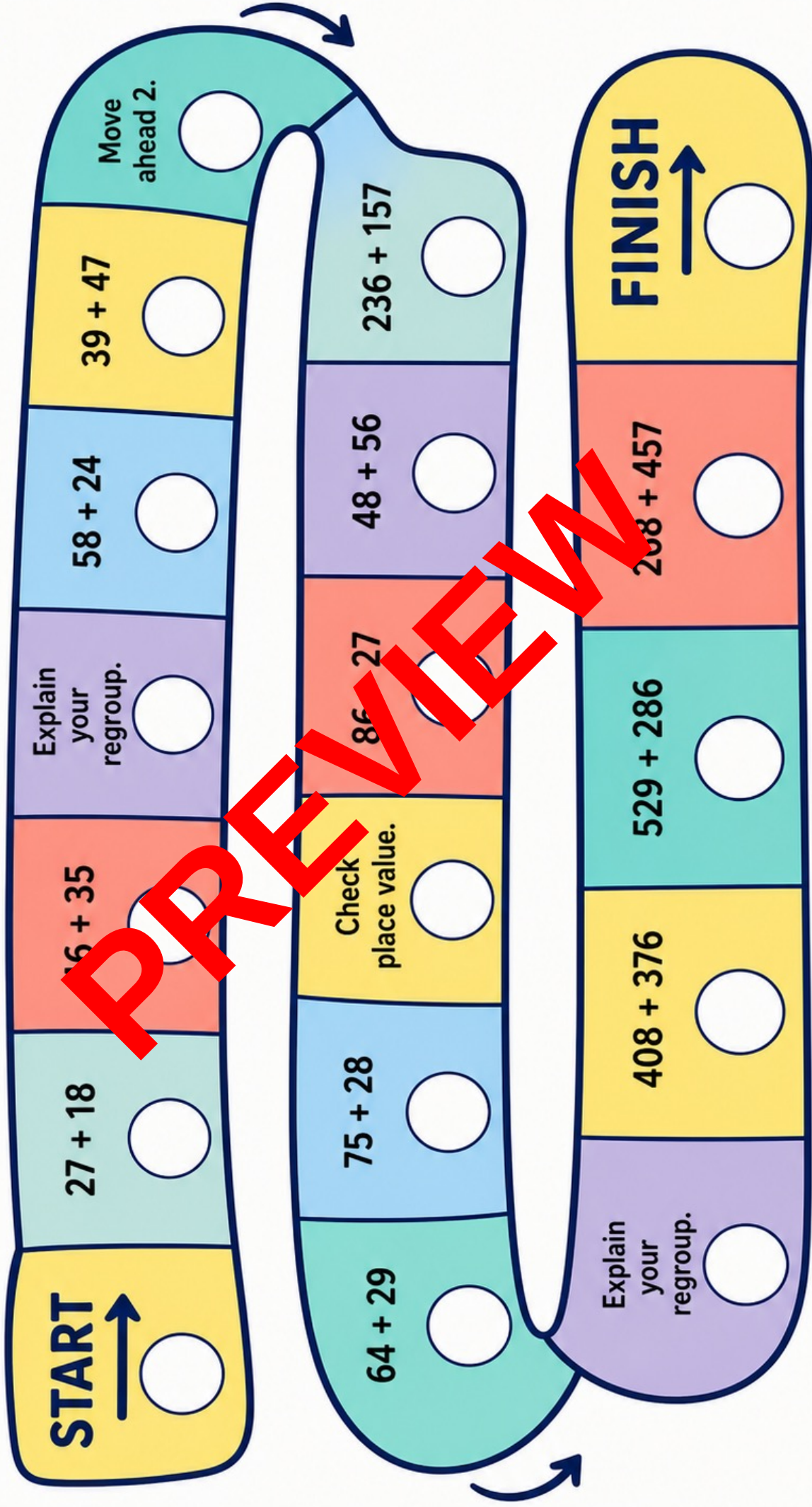
STEP 4

Add the hundreds: $1 + 2 + 4 = 7$.

H	T	O
1	1	0
2	6	8
+4	5	7
7	2	5

$$268 + 457 = 725$$

Regrouping Race



Roll. Move. Solve the space. A correct answer keeps your place.



Regrouping Race



HOW TO PLAY

1. You need 2-4 players, one die and one counter per player.
2. Place all counters on START.
3. Roll, move and solve the equation on your space.
4. Explain any special space aloud.
5. Keep your place for a correct answer. Move back one space to try again after an incorrect answer.
6. The first player to reach FINISH wins.

TEACHER ANSWER KEY

1. $27 + 18 = 45$
2. $46 + 35 = 81$
3. $58 + 24 = 82$
4. $39 + 47 = 86$
5. $64 + 29 = 93$
6. $75 + 28 = 103$
7. $86 + 27 = 113$
8. $97 + 56 = 104$
9. $268 + 157 = 393$
10. $408 + 376 = 784$
11. $529 + 286 = 815$
12. $268 + 457 = 725$



Match, Add and Check - Equation Cards



A $27 + 18$	B $46 + 35$	C $58 + 24$	D $39 + 47$
E $64 + 29$	F $75 + 28$	G $86 + 27$	H $48 + 56$
I $236 + 157$	J $408 + 376$	K $529 + 286$	L $268 + 457$

Cut apart the cards. Solve each equation, then match it to the correct sum.

Match, Add and Check - Answer Cards

725

82

393

104

45

815

86

113

81

784

100

93

 **TEACHER KEY - CUT OFF BEFORE PLAY** 

A-45

B-81

C-82

D-86

E-93

F-103

G-113

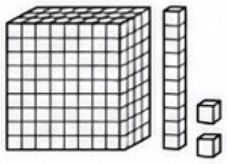
H-104

I-393

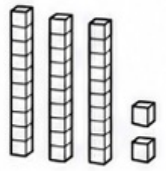
J-784

K-815

L-7



Name: _____



Worksheet 1: Place Value Set-Up

Line up the ones, tens and hundreds. Rewrite each problem vertically. Do not solve yet.

1. $34 + 29$

H	T	O

2. $58 + 16$

H	T	O

3. $247 + 35$

H	T	O

4. $105 + 78$

H	T	O

5. $329 + 154$

H	T	O

6. $485 + 67$

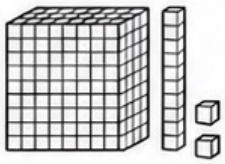
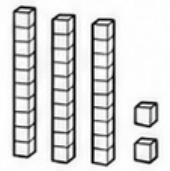
H	T	O

7. $702 + 189$

H	T	O

8. $96 + 408$

H	T	O

Name: **ANSWERS**

Worksheet 1: Place Value Set-Up

Line up the ones, tens and hundreds. Rewrite each problem vertically. Do not solve yet.

1. $34 + 29$

H	T	O
	3	4
	+ 2	9

2. $58 + 16$

H	T	O
	5	8
	+ 1	6

3. $247 + 35$

H	T	O
2	4	7
	+ 3	5

4. $106 + 78$

H	T	O
1	0	6
	+ 7	8

5. $329 + 154$

H	T	O
3	2	9
+ 1	5	4

6. $485 + 67$

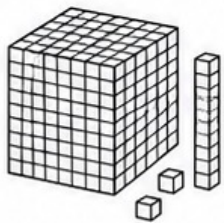
H	T	O
4	8	5
	+ 6	7

7. $702 + 189$

H	T	O
7	0	2
+ 1	8	9

8. $96 + 408$

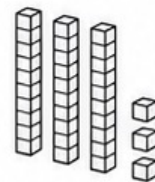
H	T	O
	9	6
+ 4	0	8



Name: _____

Worksheet 1: Place Value Set-Up

PAGE 2



Align each problem by place value. Regroup when needed, then solve.

1. $47 + 36$

H	T	O

2. $68 + 25$

H	T	O

3. $236 + 158$

H	T	O

4. $409 + 376$

H	T	O

5. $572 + 249$

H	T	O

6. $384 + 517$

H	T	O

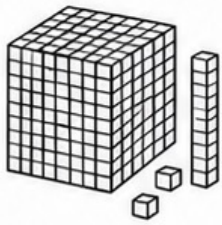
7. $65 + 278$

H	T	O

8. $718 + 96$

H	T	O

PREVIEW

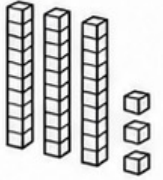


Name: _____

ANSWERS

Worksheet 1: Place Value Set-Up

PAGE 2



Align each problem by place value. Regroup when needed, then solve.

1. $47 + 36$

H	T	O
	4	7
+	3	6
	8	3

2. $68 + 25$

H	T	O
	6	8
+	2	5
	9	3

3. $236 + 158$

H	T	O
2	3	6
+	1	5
3	9	8

4. $409 + 376$

H	T	O
4	0	9
+	3	7
7	8	5

5. $572 + 249$

H	T	O
5	7	2
+	2	4
8	2	1

6. $384 + 517$

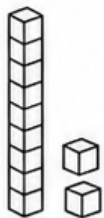
H	T	O
3	8	4
+	5	1
9	0	1

7. $65 + 278$

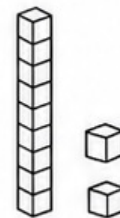
H	T	O
	6	5
+	2	7
3	4	3

8. $718 + 96$

H	T	O
7	1	8
+	9	6
8	1	4



Name: _____



Worksheet 2: Two-Digit Regrouping

PAGE 1 - REGROUP THE ONES

Add the ones first. Regroup 10 ones as 1 ten, then finish each sum.

1. $27 + 18$

$$\begin{array}{r} 27 \\ + 18 \\ \hline \end{array}$$

2. $46 + 35$

$$\begin{array}{r} 46 \\ + 35 \\ \hline \end{array}$$

3. $58 + 24$

$$\begin{array}{r} 58 \\ + 24 \\ \hline \end{array}$$

4. $35 + 47$

$$\begin{array}{r} 39 \\ + 47 \\ \hline \end{array}$$

5. $64 + 29$

$$\begin{array}{r} 64 \\ + 29 \\ \hline \end{array}$$

6. $75 + 18$

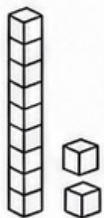
$$\begin{array}{r} 75 \\ + 18 \\ \hline \end{array}$$

7. $86 + 27$

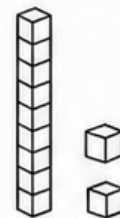
$$\begin{array}{r} 86 \\ + 27 \\ \hline \end{array}$$

8. $48 + 56$

$$\begin{array}{r} 48 \\ + 56 \\ \hline \end{array}$$



Name: _____

ANSWERS**Worksheet 2: Two-Digit Regrouping****PAGE 1 - REGROUP THE ONES**

Add the ones first. Regroup 10 ones as 1 ten, then finish each sum.

1. $27 + 18$

$$\begin{array}{r} 27 \\ + 18 \\ \hline 45 \end{array}$$

2. $46 + 35$

$$\begin{array}{r} 46 \\ + 35 \\ \hline 81 \end{array}$$

3. $58 + 24$

$$\begin{array}{r} 58 \\ + 24 \\ \hline 82 \end{array}$$

4. $35 + 47$

$$\begin{array}{r} 39 \\ + 47 \\ \hline 86 \end{array}$$

5. $64 + 29$

$$\begin{array}{r} 64 \\ + 29 \\ \hline 93 \end{array}$$

6. $75 + 18$

$$\begin{array}{r} 75 \\ + 18 \\ \hline 93 \end{array}$$

7. $86 + 27$

$$\begin{array}{r} 86 \\ + 27 \\ \hline 113 \end{array}$$

8. $48 + 56$

$$\begin{array}{r} 48 \\ + 56 \\ \hline 104 \end{array}$$



Name: _____



Worksheet 2: Two-Digit Regrouping

PAGE 2 - SOLVE AND CHECK

Estimate first. Then solve and check whether your exact answer is reasonable.

1. $34 + 58$

$$\begin{array}{r} 34 \\ + 58 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

2. $67 + 25$

$$\begin{array}{r} 67 \\ + 25 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

3. $49 + 36$

$$\begin{array}{r} 49 \\ + 36 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

4. $75 + 17$

$$\begin{array}{r} 75 \\ + 17 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

5. $56 + 48$

$$\begin{array}{r} 56 \\ + 48 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

6. $89 + 24$

$$\begin{array}{r} 89 \\ + 24 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

7. $63 + 59$

$$\begin{array}{r} 63 \\ + 59 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

8. $77 + 38$

$$\begin{array}{r} 77 \\ + 38 \\ \hline \end{array}$$

Estimate: _____

Exact: _____

PREVIEW

Name: **ANSWERS**

Worksheet 2: Two-Digit Regrouping

PAGE 2 - SOLVE AND CHECK

Estimate first. Then solve and check whether your exact answer is reasonable.

1. $34 + 58$

$$\begin{array}{r} 34 \\ + 58 \\ \hline \end{array}$$

Estimate: 90Exact: 92

2. $67 + 25$

$$\begin{array}{r} 67 \\ + 25 \\ \hline \end{array}$$

Estimate: 100Exact: 92

3. $49 + 36$

$$\begin{array}{r} 49 \\ + 36 \\ \hline \end{array}$$

Estimate: 90Exact: 85

4. $75 + 17$

$$\begin{array}{r} 75 \\ + 17 \\ \hline \end{array}$$

Estimate: 100Exact: 95

5. $56 + 48$

$$\begin{array}{r} 56 \\ + 48 \\ \hline \end{array}$$

Estimate: 110Exact: 104

6. $89 + 24$

$$\begin{array}{r} 89 \\ + 24 \\ \hline \end{array}$$

Estimate: 110Exact: 113

7. $63 + 59$

$$\begin{array}{r} 63 \\ + 59 \\ \hline \end{array}$$

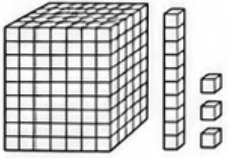
Estimate: 120Exact: 122

8. $77 + 38$

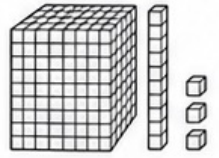
$$\begin{array}{r} 77 \\ + 38 \\ \hline \end{array}$$

Estimate: 120Exact: 115

PREVIEW



Worksheet 3: Three-Digit Regrouping



PAGE 1 - BUILDING FLUENCY

Name: _____

Add from the ones column. Regroup carefully and keep each digit in its place.

1. $243 + 178$

$$\begin{array}{r} 243 \\ + 178 \\ \hline \end{array}$$

2. $356 + 267$

$$\begin{array}{r} 356 \\ + 267 \\ \hline \end{array}$$

3. $482 + 159$

$$\begin{array}{r} 482 \\ + 159 \\ \hline \end{array}$$

4. $617 + 285$

$$\begin{array}{r} 617 \\ + 285 \\ \hline \end{array}$$

5. $529 + 164$

$$\begin{array}{r} 529 \\ + 164 \\ \hline \end{array}$$

6. $738 + 186$

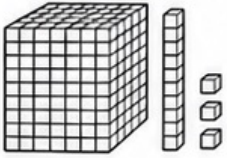
$$\begin{array}{r} 738 \\ + 186 \\ \hline \end{array}$$

7. $405 + 378$

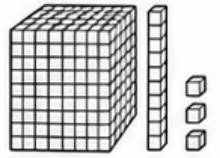
$$\begin{array}{r} 405 \\ + 378 \\ \hline \end{array}$$

8. $694 + 227$

$$\begin{array}{r} 694 \\ + 227 \\ \hline \end{array}$$



Worksheet 3: Three-Digit Regrouping



PAGE 1 - BUILDING FLUENCY

Name: **ANSWERS**

Add from the ones column. Regroup carefully and keep each digit in its place.

1. $243 + 178$

$$\begin{array}{r} 243 \\ + 178 \\ \hline 421 \end{array}$$

2. $356 + 267$

$$\begin{array}{r} 356 \\ + 267 \\ \hline 623 \end{array}$$

3. $482 + 159$

$$\begin{array}{r} 482 \\ + 159 \\ \hline 641 \end{array}$$

4. $617 + 285$

$$\begin{array}{r} 617 \\ + 285 \\ \hline 902 \end{array}$$

5. $529 + 164$

$$\begin{array}{r} 529 \\ + 164 \\ \hline 693 \end{array}$$

6. $738 + 186$

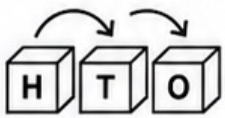
$$\begin{array}{r} 738 \\ + 186 \\ \hline 924 \end{array}$$

7. $405 + 378$

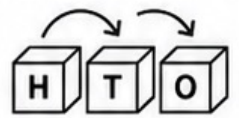
$$\begin{array}{r} 405 \\ + 378 \\ \hline 783 \end{array}$$

8. $694 + 227$

$$\begin{array}{r} 694 \\ + 227 \\ \hline 921 \end{array}$$



Worksheet 3: Three-Digit Regrouping



PAGE 2 - MULTI-COLUMN CHALLENGE

Name: _____

Some problems regroup more than once. Work from right to left and check each column.

1. $268 + 457$

$$\begin{array}{r} 268 \\ + 457 \\ \hline \end{array}$$

2. $376 + 589$

$$\begin{array}{r} 376 \\ + 589 \\ \hline \end{array}$$

3. $485 + 678$

$$\begin{array}{r} 485 \\ + 678 \\ \hline \end{array}$$

4. $597 + 346$

$$\begin{array}{r} 597 \\ + 346 \\ \hline \end{array}$$

5. $728 + 495$

$$\begin{array}{r} 728 \\ + 495 \\ \hline \end{array}$$

6. $839 + 276$

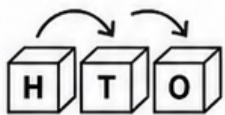
$$\begin{array}{r} 839 \\ + 276 \\ \hline \end{array}$$

7. $654 + 387$

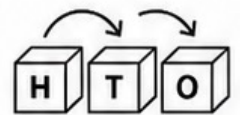
$$\begin{array}{r} 654 \\ + 387 \\ \hline \end{array}$$

8. $769 + 458$

$$\begin{array}{r} 769 \\ + 458 \\ \hline \end{array}$$



Worksheet 3: Three-Digit Regrouping



PAGE 2 - MULTI-COLUMN CHALLENGE

Name: **ANSWERS**

Some problems regroup more than once. Work from right to left and check each column.

1. $268 + 457$

$$\begin{array}{r} 268 \\ + 457 \\ \hline 725 \end{array}$$

2. $376 + 589$

$$\begin{array}{r} 376 \\ + 589 \\ \hline 965 \end{array}$$

3. $485 + 678$

$$\begin{array}{r} 485 \\ + 678 \\ \hline 1163 \end{array}$$

4. $597 + 346$

$$\begin{array}{r} 597 \\ + 346 \\ \hline 943 \end{array}$$

5. $728 + 495$

$$\begin{array}{r} 728 \\ + 495 \\ \hline 1223 \end{array}$$

6. $839 + 276$

$$\begin{array}{r} 839 \\ + 276 \\ \hline 1115 \end{array}$$

7. $654 + 387$

$$\begin{array}{r} 654 \\ + 387 \\ \hline 1041 \end{array}$$

8. $769 + 458$

$$\begin{array}{r} 769 \\ + 458 \\ \hline 1227 \end{array}$$



Name: _____



Worksheet 4: Regrouping Word Problems

PAGE 1 - TWO-DIGIT PROBLEMS

Choose the operation, set out the numbers by place value and show your regrouping.

1. The school book drive collected 38 fiction books and 47 non-fiction books.
How many books were collected altogether?

Working:

Answer: _____

2. A class planted 56 vegetable seedlings and 28 flower seedlings.
How many seedlings did they plant altogether?

Working:

Answer: _____

3. A museum welcomed 67 visitors in the morning and 39 visitors in the afternoon.
How many visitors came the day?

Working:

Answer: _____

4. Noah had 48 sports cards and received 36 more.
How many sports cards does Noah have now?

Working:

Answer: _____

PREVIEW



Name: **ANSWERS**



Worksheet 4: Regrouping Word Problems

PAGE 1 - TWO-DIGIT PROBLEMS

Choose the operation, set out the numbers by place value and show your regrouping.

1. The school book drive collected 38 fiction books and 47 non-fiction books.
How many books were collected altogether?

Working:

$$38 + 47 = 85$$

Answer: 85 books were collected.

2. A class planted 56 vegetable seedlings and 28 flower seedlings.
How many seedlings did they plant altogether?

Working:

$$56 + 28 = 84$$

Answer: They planted 84 seedlings.

3. A museum welcomed 67 visitors in the morning and 39 visitors in the afternoon.
How many visitors came that day?

Working:

$$67 + 39 = 106$$

Answer: 106 visitors came that day.

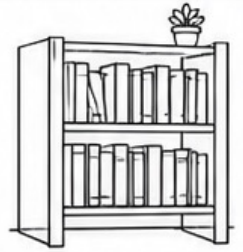
4. Noah had 48 sports cards and received 36 more.
How many sports cards does Noah have now?

Working:

$$48 + 36 = 84$$

Answer: Noah has 84 sports cards.

Name: _____



Worksheet 4: Regrouping Word Problems

PAGE 2 - THREE-DIGIT PROBLEMS

Choose the operation, set out the numbers by place value and show your regrouping.

1. The library had 247 adventure books and 186 information books.

How many books were there altogether?

Working:

Answer: _____

2. The school fete sold 368 tickets online and 257 tickets at the gate.

How many tickets were sold altogether?

Working:

Answer: _____

3. Students collected 459 aluminium cans and 276 plastic bottles for recycling.

How many items did they collect altogether?

Working:

Answer: _____

4. A wildlife centre prepared 385 morning meals and 468 afternoon meals.

How many animal meals were prepared altogether?

Working:

Answer: _____



Name: **ANSWERS**



Worksheet 4: Regrouping Word Problems

PAGE 2 - THREE-DIGIT PROBLEMS

Choose the operation, set out the numbers by place value and show your regrouping.

1. The library had 247 adventure books and 186 information books.

How many books were there altogether?

Working:

$$247 + 186 = 433$$

Answer: **There were 433 books.**

2. The school fete sold 368 tickets online and 257 tickets at the gate.

How many tickets were sold altogether?

Working:

$$368 + 257 = 625$$

Answer: **625 tickets were sold.**

3. Students collected 459 aluminium cans and 276 plastic bottles for recycling.

How many items did they collect altogether?

Working:

$$459 + 276 = 735$$

Answer: **They collected 735 items.**

4. A wildlife centre prepared 385 morning meals and 468 afternoon meals.

How many animal meals were prepared altogether?

Working:

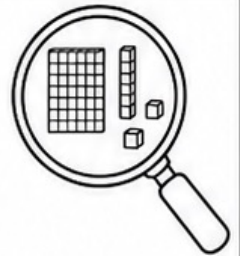
$$385 + 468 = 853$$

Answer: **853 animal meals were prepared.**





Worksheet 5: Missing Numbers and Error Hunt



Name: _____

PAGE 1 - MISSING DIGITS

Find the missing digit. Use place value and regrouping to prove your answer.

1. $4 \square + 38 = 85$

Show your working:

2. $\square 6 + 27 = 83$

Show your working:

3. $58 + \square 5 = 103$

Show your working:

4. $7 \square + 48 = 125$

Show your working:

5. $2 \square 6 + 174 = 433$

Show your working:

6. $\square 58 + 276 = 634$

Show your working:

7. $4 \square 9 + 186 = 635$

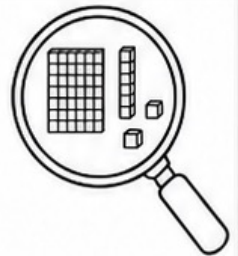
Show your working:

8. $\square 72 + 359 = 931$

Show your working:



Worksheet 5: Missing Numbers and Error Hunt



Name: _____ **ANSWERS**

PAGE 1 - MISSING DIGITS

Find the missing digit. Use place value and regrouping to prove your answer.

1. $4 \boxed{7} + 38 = 85$

Show your working:

$$47 + 38 = 85$$

2. $\boxed{5}6 + 27 = 83$

Show your working:

$$56 + 27 = 83$$

3. $58 + \boxed{4}5 = 103$

Show your working:

$$58 + 45 = 103$$

4. $7\boxed{7} + 48 = 125$

Show your working:

$$77 + 48 = 125$$

5. $2\boxed{4}6 + 187 = 433$

Show your working:

$$246 + 187 = 433$$

6. $\boxed{3}58 + 276 = 634$

Show your working:

$$358 + 276 = 634$$

7. $4\boxed{4}9 + 186 = 635$

Show your working:

$$449 + 186 = 635$$

8. $\boxed{5}72 + 359 = 931$

Show your working:

$$572 + 359 = 931$$



Worksheet 5: Missing Numbers and Error Hunt

PAGE 2 - ERROR HUNT



Name: _____

Circle the first error. Write the correct sum and explain what went wrong.

1. Ava says $47 + 38 = 75$.

Correct sum: _____

Explanation: _____

2. Ben says $286 + 157 = 333$.

Correct sum: _____

Explanation: _____

3. Mia says $409 + 37 = 715$.

Correct sum: _____

Explanation: _____

4. Leo says $568 + 247 = 705$.

Correct sum: _____

Explanation: _____



Worksheet 5: Missing Numbers and Error Hunt

PAGE 2 - ERROR HUNT



Name: **ANSWERS**

Circle the first error. Write the correct sum and explain what went wrong.

1. Ava says $47 + 38 = 75$.

Correct sum: **85**

Explanation: **Ava forgot to add the regrouped ten.**

2. Ben says $286 + 157 = 333$.

Correct sum: **443**

Explanation: **Ben did not add the regrouped values to the next columns.**

3. Mia says $409 + 371 = 715$.

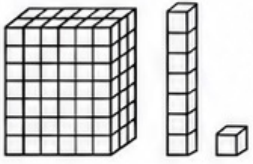
Correct sum: **785**

Explanation: **After regrouping 15 ones, $0 + 7 + 1 = 8$ tens.**

4. Leo says $568 + 247 = 705$.

Correct sum: **815**

Explanation: **Leo did not include the regrouped ten and hundred.**



Addition with Regrouping Assessment

PAGE 1 - CALCULATION



Name: _____

Date: _____

Show your working. Keep ones, tens and hundreds aligned.

1. $46 + 37$

$$\begin{array}{r} 46 \\ + 37 \\ \hline \end{array}$$

2. $58 + 29$

$$\begin{array}{r} 58 \\ + 29 \\ \hline \end{array}$$

3. $67 + 48$

$$\begin{array}{r} 67 \\ + 48 \\ \hline \end{array}$$

4. $5 + 28$

$$\begin{array}{r} 95 \\ + 28 \\ \hline \end{array}$$

5. $236 + 157$

$$\begin{array}{r} 236 \\ + 157 \\ \hline \end{array}$$

6. $408 + 376$

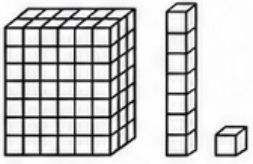
$$\begin{array}{r} 408 \\ + 376 \\ \hline \end{array}$$

7. $529 + 286$

$$\begin{array}{r} 529 \\ + 286 \\ \hline \end{array}$$

8. $674 + 358$

$$\begin{array}{r} 674 \\ + 358 \\ \hline \end{array}$$



Addition with Regrouping Assessment

PAGE 1 - CALCULATION



Name: _____

ANSWERS

Date: _____

Show your working. Keep ones, tens and hundreds aligned.

1. $46 + 37$

$$\begin{array}{r} 46 \\ + 37 \\ \hline 83 \end{array}$$

2. $58 + 29$

$$\begin{array}{r} 58 \\ + 29 \\ \hline 87 \end{array}$$

3. $67 + 48$

$$\begin{array}{r} 67 \\ + 48 \\ \hline 115 \end{array}$$

4. $95 + 28$

$$\begin{array}{r} 95 \\ + 28 \\ \hline 123 \end{array}$$

5. $236 + 157$

$$\begin{array}{r} 236 \\ + 157 \\ \hline 393 \end{array}$$

6. $408 + 376$

$$\begin{array}{r} 408 \\ + 376 \\ \hline 784 \end{array}$$

7. $529 + 286$

$$\begin{array}{r} 529 \\ + 286 \\ \hline 815 \end{array}$$

8. $674 + 358$

$$\begin{array}{r} 674 \\ + 358 \\ \hline 1032 \end{array}$$



Addition with Regrouping Assessment

PAGE 2 - COMMUNITY GARDEN OPEN DAY



Name: _____

Date: _____

Use addition with regrouping. Show your working and write a complete answer.

1. Volunteers planted 268 seedlings in the morning and 457 seedlings in the afternoon.
How many seedlings were planted altogether?

Working:

Answer:

2. The garden stall sold 186 herb pots and 279 flower pots.
How many pots were sold altogether?

Working:

Answer:

3. The open day welcomed 340 visitors on Saturday and 576 visitors on Sunday.
How many visitors attended altogether?

Working:

Answer:

4. Luca says $386 + 247 = 533$. Is Luca correct? Show and explain.

Working:

Answer:





Addition with Regrouping Assessment

PAGE 2 - COMMUNITY GARDEN OPEN DAY



Name: _____ **ANSWERS** _____ Date: _____

Use addition with regrouping. Show your working and write a complete answer.

1. Volunteers planted 268 seedlings in the morning and 457 seedlings in the afternoon.
How many seedlings were planted altogether?

Working:

$$268 + 457 = 725$$

Answer:

725 seedlings were planted. _____

2. The garden stall sold 186 herb pots and 279 flower pots.
How many pots were sold altogether?

Working:

$$186 + 279 = 465$$

Answer:

465 pots were sold. _____

3. The open day welcomed 348 visitors on Saturday and 576 visitors on Sunday.
How many visitors attended altogether?

Working:

$$348 + 576 = 924$$

Answer:

924 visitors attended. _____

4. Luca says $386 + 247 = 533$. Is Luca correct? Show and explain.

Working:

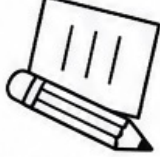
$$386 + 247 = 633$$

Answer:

No. Luca forgot the regrouped _____
hundred. The correct total is 633.



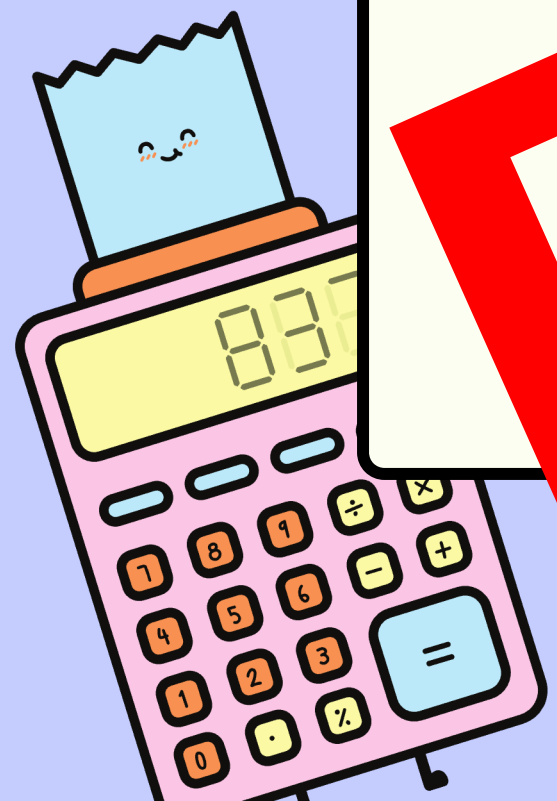
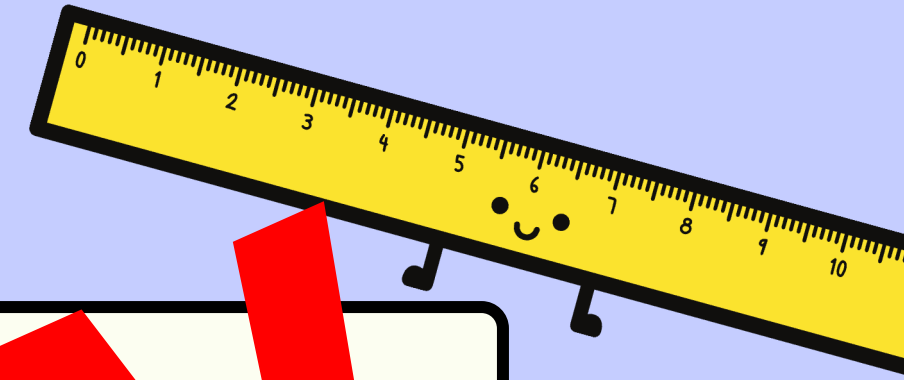
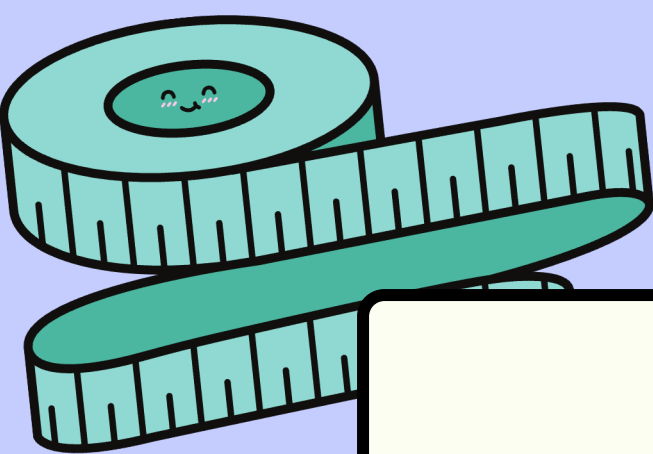
Addition with Regrouping Rubric



CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Place Value Alignment	Needs help to align digits.	Aligns some digits correctly.	Aligns ones, tens and hundreds correctly.	Aligns independently and checks the set-up.	Explains why alignment matters and corrects errors.
Regrouping Process	Needs prompts to regroup.	Regroups with on-column with support.	Regroups accurately on familiar problems.	Handles multiple regrouping accurately.	Explains and applies regrouping flexibly.
Calculation Accuracy	Answers often contain calculation errors.	Some two- and three-digit sums are correct.	Most two- and three-digit sums are correct.	Calculations are accurate and checked.	Calculations are consistently accurate and errors are identified.
Problem Solving	Needs help to choose addition.	Identifies addition with prompts.	Solves familiar problems and shows working.	Explains the strategy and writes complete answers.	Justifies the method and compares efficient strategies.

Teacher comments: _____

Next step: _____



PREVIEW

**Addition with
Regrouping**



Learning Goal

We are learning to add two- and three-digit numbers by regrouping.

Success criteria

- align digits by place value
- group tens and ones as tens, and ten tens as one hundred
- record carry digits clearly
- estimate and check the answer



Place Value Comes First

Write numbers in hundreds, tens and ones columns.

H under T under O under

Start with the hundreds column. A digit in the wrong column changes its value.



Example: $47 + 38$

Start with the ones.

7 ones + 8 ones = 15 ones

15 ones can be renamed as 1 ten and 5 ones. We cannot write 15 in the ones column.



Regroup the Ones

Write 5 in the ones place.

Regroup the other 5 ones as 1 ten. Record a small 1 above the tens column.

Now the regrouped ten is ready to be added.



Finish the Tens

Tens: 7 groups of ten + 4 tens + 3 tens + 8 tens

Ones: 5 ones

$$47 + 38 = 85$$



Guided Practice: $56 + 28$

Ones: $6 + 8 = 14$. Write 4 ones and regroup ten.

Tens: $1 + 5 + 2 =$

$56 + 28 =$

Explain where the regrouped ten came from.



Check with an Estimate

Round 47 to 50 and 38 to 40.

$$50 + 40 = 90$$

The exact answer, 85, is close to 90, so it is reasonable. An estimate helps catch errors; it does not replace the exact calculation.



The Same Process with Three Digit

1. Align hundreds, tens and ones.
2. Add the ones and regroup if needed.
3. Add the tens, including any regrouped ten.
4. Add the hundreds, including any regrouped hundred.
5. Check the answer.



Example: $247 + 386$

Ones: $7 + 6 = 13$ ones.

Write 3 in the ones place. Regroup 10 ones as 1 ten and record the 1 above the

ten



Continue to 633

Tens: $1 + 4 + 8 = 13$ tens. Write tens and regroup 1 hundred.

Hundreds: $2 + 1 = 3$ hundreds.

$247 + 386 = 633$



Regroup More Than Once

$$468 + 257$$

Ones: $8 + 7 = 15$ — write 5, regroup 1 ten

Tens: $6 + 5 = 11$ — write 1, regroup 1 hundred

Hundreds: $4 + 2 = 6$

$$468 + 257 = 725$$



Solve a Word Problem

A library has 276 fiction books and 189 non-fiction books. How many books are there altogether?

Use addition: $276 + 189$

Answer: 465

Write the answer: There are 465 books altogether.



Watch for Common Errors

- Misaligned digits — place-value columns.
- A forgotten carry value — record in the next column.
- Starting in the hundreds — begin with the ones.
- Starting 12 in one column — group ten of that place.
- An unreasonable total — estimate and check.



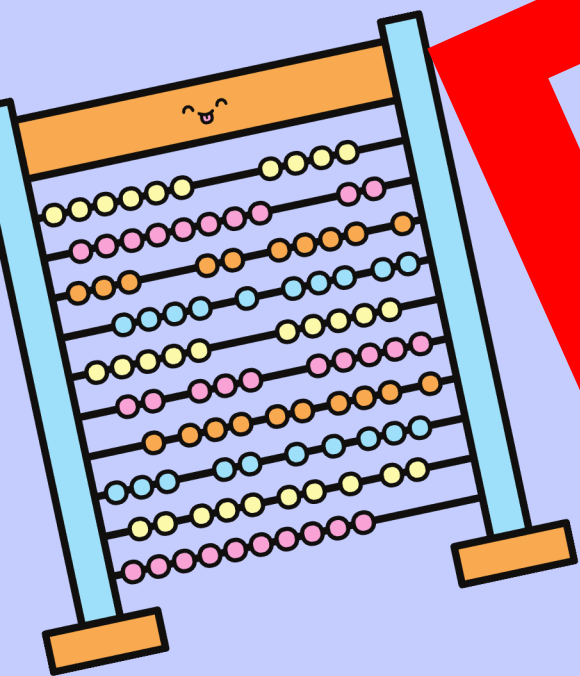
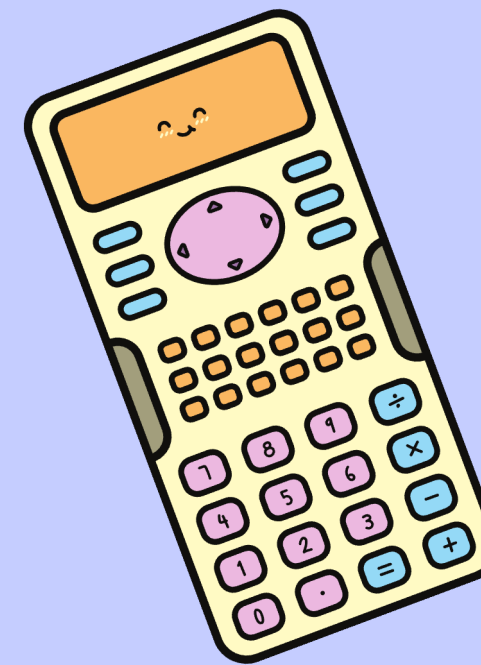
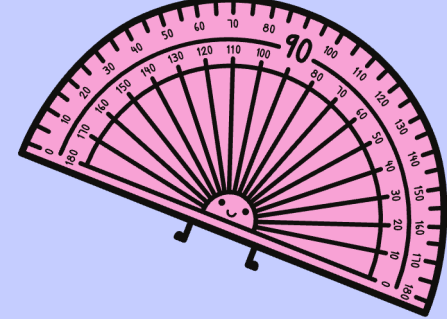
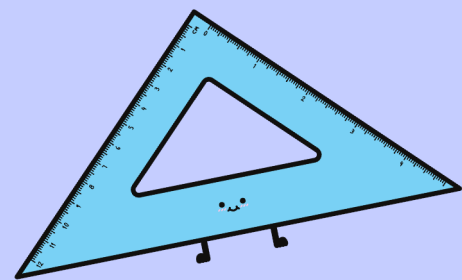
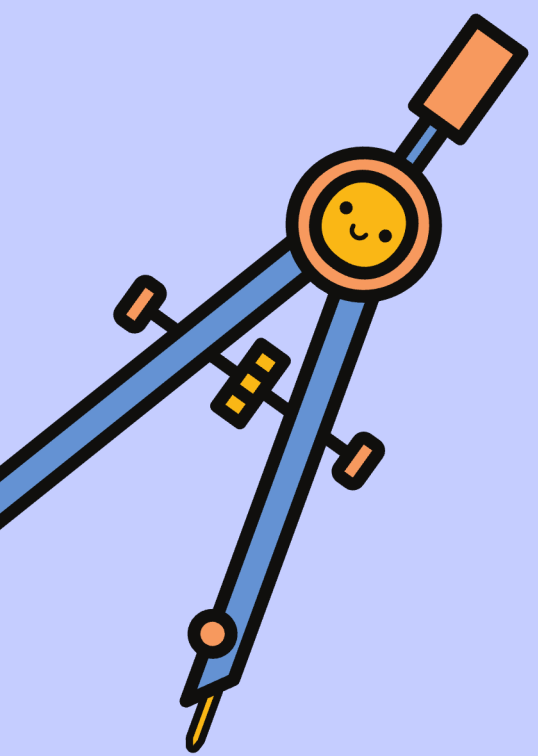
Your Turn and Recap

Solve $358 + 276$. Show each regrouping step, then check with an estimate.

ADD → $358 + 276$ → REGROUP → CHECK

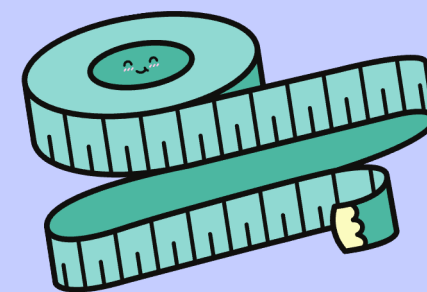
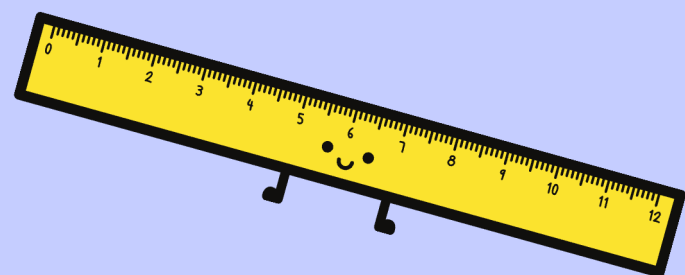
Can you explain why every digit must stay in its correct place-value column?

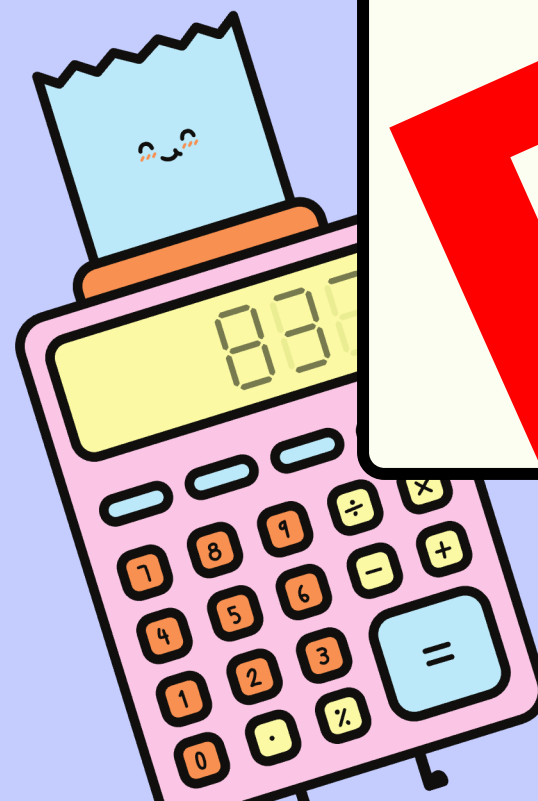
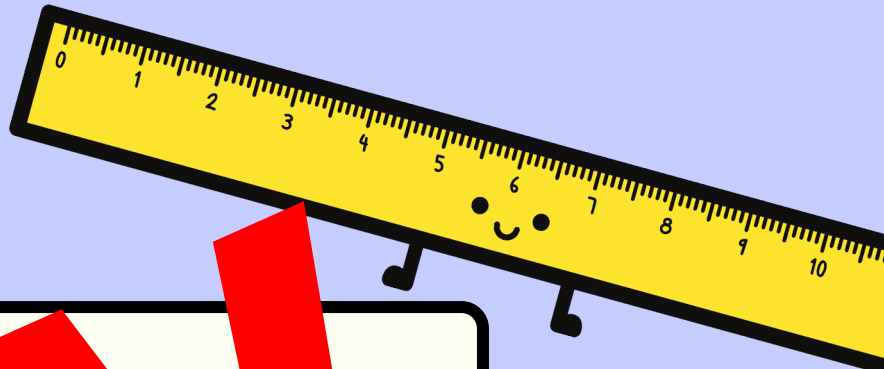
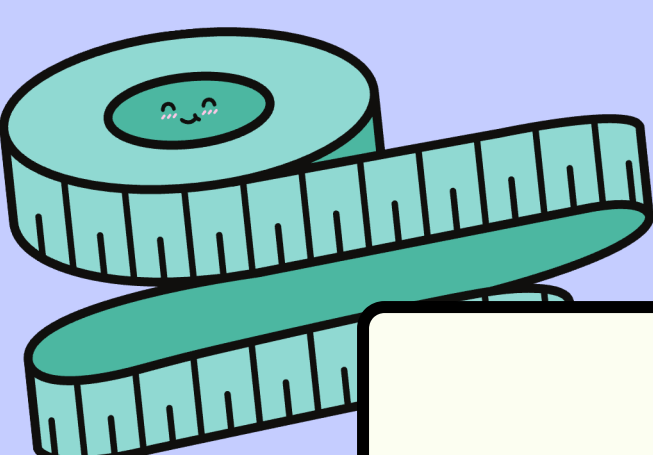




PREVIEW

Well Done





PREVIEW

**Addition with
Regrouping Quiz**



Question 1

What is $47 + 38$?

A. 75

B. 85

C. 95

D. 105



Answer 1

B. 85

7 tens = 15 tens. write 7 in the tens place and regroup 1 ten. Then $1 + 4 + 3 = 8$ tens.



Question 2

True or false?

In $10 + 27 + 7 = 104$, we have 3 ones and regroup 1 ten.

PREVIEW



Answer 2

True.

15 ones is the same as 1 ten and 5 ones.



Question 3

Calculate $68 +$

Show the groups in your working.



Answer 3

$$68 + 45 = 113$$

8 + 5 = 13, write 3 and regroup 1 ten. Then $1 + 6 + 4 = 11$ tens.



Question 4

What is $236 + 487$?

A. 713

B. 23

C.

D. 82



Answer 4

B. 723

$$6 \times 12 = 12 \times 3 + 8 \times 12 = 2 \times 4 = 7.$$



Question 5

Calculate $358 \div 6$.

Show each group of 10.

PREVIEW



Answer 5

$$358 + 276 = 634$$

Round up in the one column and again in the tens column.

PREVIEW



Question 6

True or false?

$14 \times 252 = 3528$

PREVIEW



Answer 6

False. The correct sum is 402.

$9 = 12$ then $1 + 5 = 6$ tens, so regroup 1 hundred.



Question 7

Which equation has a sum of 531?

A. $247 + 283$

B. $248 + 28$

C. $247 + 283$

D. $250 + 283$



Answer 7

PREVIEW

B 2 1 20 53



Question 8

A library had 276 books and received 39 more. How many books does it have now?

Show your working and write a complete answer.



Answer 8

$$276 + 189 = 465$$

The library has 465 books now.



Question 9

True or false?

You should align hundreds, tens and ones before adding.

PREVIEW



Answer 9

True.

Correct alignment for every digit in its correct place-value column.



Question 10

A student wrote $4 + 58 = 122$.

Is the answer correct? If not, explain the error and give the correct total.

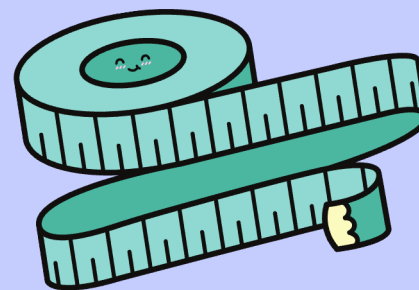
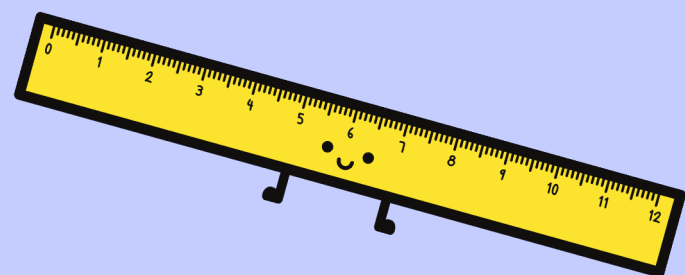
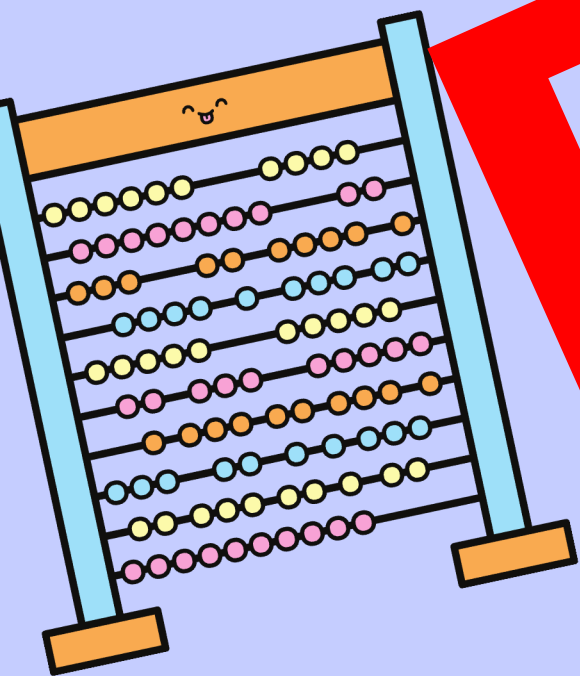
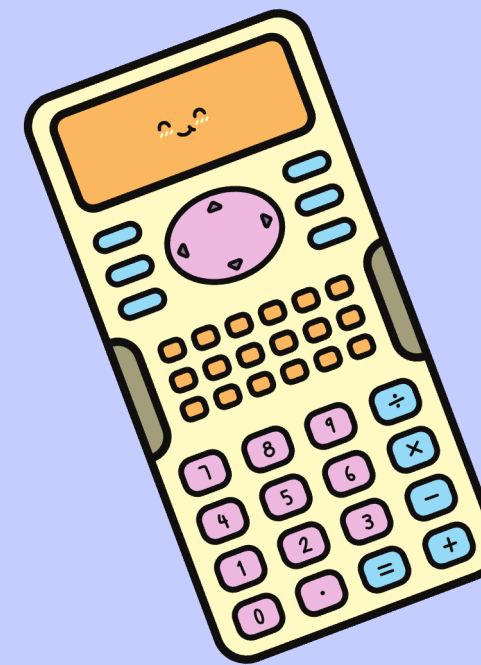
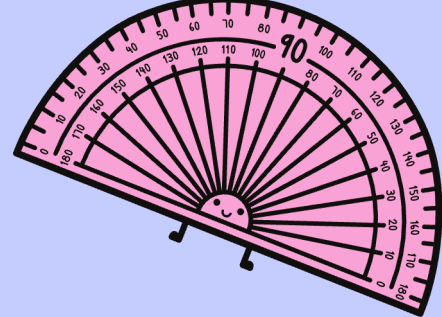
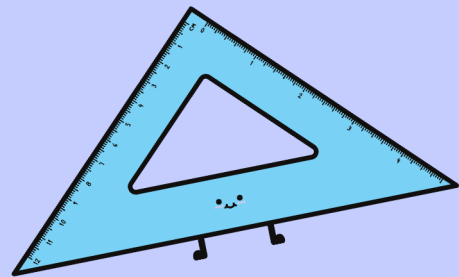
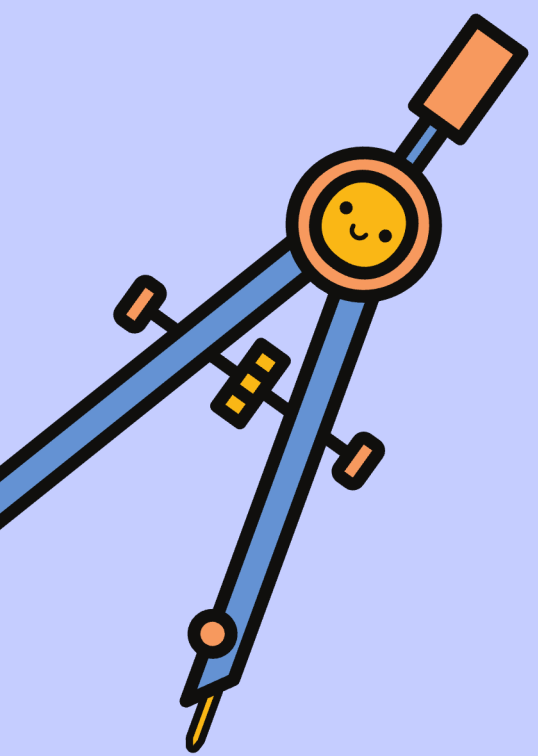


Answer 10

The answer is incorrect.

$74 - 58 = 16$. The student forgot to include the regrouped ten.





Well Done

PREVIEW