Merit Tutoring

Worksheet 3

Year 3 Mathematics — Australian Curriculum v9.0

Subtopic: Partition, Rearrange and Regroup 2- and 3-digit Numbers

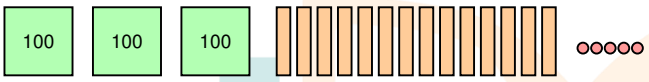
Name: _____ **Date:** _____

Score: _____ / 30

Section 1: Fluency — Visual Partitioning (Questions 1–10)

Instructions: Look at the Base-10 Blocks and answer the questions.

Question 1: Write the number shown by these Base-10 Blocks in standard form.

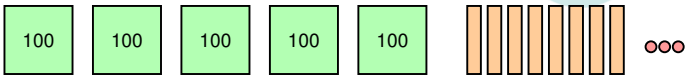


Answer: _____

Question 2: Partition the number 276 into hundreds, tens, and ones.

Answer: _____

Question 3: Write the number shown by these Base-10 Blocks in standard form.

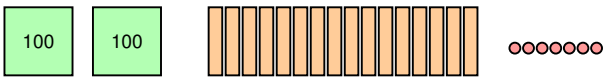


Answer: _____

Question 4: Partition the number 534 into hundreds, tens, and ones.

Answer: _____

Question 5: Write the number shown by these Base-10 Blocks in standard form.

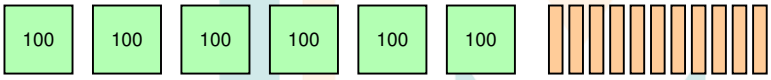


Answer: _____

Question 6: Partition the number 803 into hundreds, tens, and ones.

Answer: _____

Question 7: Write the number shown by these Base-10 Blocks in standard form.



Answer: _____

Question 8: Partition the number 459 into hundreds, tens, and ones.

Answer: _____

Question 9: Complete the partition table for the number 682.

Hundreds	Tens	Ones

Answer: _____

Question 10: Write the number shown: 7 hundreds, 13 tens, and 4 ones in standard form.

Answer: _____

Good Job!
What did the triangle say to the circle? You're pointless!

Section 2: Reasoning — Non-Standard Partitioning (Questions 11–20)

Instructions: Answer these questions about different ways to partition numbers.

Question 11: Is 34 tens the same as 340? Show your thinking.

Answer: _____

Question 12: Fill in the gap: 560 = 5 hundreds and ___ tens.

Answer: _____

Question 13: True or False: 42 tens equals 420. Explain.

Answer: _____

Question 14: Complete: 730 = ___ tens.

Answer: _____

Question 15: Rearrange 485 to show it as: ___ hundreds, ___ tens, and ___ ones.

Answer: _____

Question 16: Can you write 250 as 25 tens? Explain why or why not.

Answer: _____

Question 17: Fill in the blank: 8 hundreds and 12 tens = ____.

Answer: _____

Question 18: How many tens are in 670?

Answer: _____

Question 19: Is 15 tens greater than, less than, or equal to 150? Circle one.

Answer: _____

Question 20: Write 3 hundreds and 24 tens in standard form.

Answer: _____

Good Job!

Why do plants hate maths? Because it gives them square roots!

Section 3: Challenge — Worded Logic (Questions 21–30)

Instructions: Solve these logic puzzles about partitioning numbers.

Question 21: I have 25 tens and 4 ones. What number am I?

Answer: _____

Question 22: Sarah says, ”I have 6 hundreds, 14 tens, and 8 ones.” What number does Sarah have?

Answer: _____

Question 23: A mystery number can be written as 38 tens. What is the mystery number?

Answer: _____

Question 24: Tommy has 4 hundreds, 17 tens, and 3 ones. Write Tommy’s number in standard form.

Answer: _____

Question 25: I am a 3-digit number. I have 12 tens and 5 ones. My hundreds digit is 4. What number am I?

Answer: _____

Question 26: Complete: If I have 56 tens, I have ____ hundreds and ____ tens.

Answer: _____

Question 27: Write 700 in three different ways using hundreds, tens, and ones.

Answer: _____

Question 28: A number has 3 hundreds and 25 tens. Is this number greater than or less than 600?

Answer: _____

Question 29: Jake rearranges 542 as ”5 hundreds, 3 tens, and 12 ones.” Is Jake correct? Explain.

Answer: _____

Question 30: Express 834 in two different ways.

Answer: _____

Good Job!

What is a maths teacher’s favorite type of tree? Geometry (gum-tree)!

Excellent Work! You’ve completed Worksheet 3!

Answer Key — Worksheet 3

Year 3 Mathematics

Section 1: Fluency

1. 445
2. 2 hundreds, 7 tens, 6 ones
3. 583
4. 5 hundreds, 3 tens, 4 ones
5. 367
6. 8 hundreds, 0 tens, 3 ones
7. 710
8. 4 hundreds, 5 tens, 9 ones
9. 6 hundreds, 8 tens, 2 ones
10. 834

Section 2: Reasoning

11. Yes, 34 tens = 340
12. 6 tens (or 56 tens)
13. True, 42 tens = 420
14. 73 tens
15. 4 hundreds, 8 tens, 5 ones
16. Yes, 25 tens = 250
17. 920
18. 67 tens
19. Equal to 150
20. 540

Section 3: Challenge

21. 254
22. 748
23. 380
24. 573
25. 525
26. 5 hundreds and 6 tens
27. Example: 7 hundreds, 0 tens, 0 ones OR 70 tens, 0 ones OR 6 hundreds, 10 tens, 0 ones
28. Less than 600 (550 ¡ 600)
29. Yes, correct (5 hundreds = 500, 3 tens = 30, 12 ones = 12; total = 542)
30. Example: 8 hundreds, 3 tens, 4 ones OR 83 tens and 4 ones

Worksheet 4

Year 3 Mathematics — Australian Curriculum v9.0

Subtopic: Partition, Rearrange and Regroup 2- and 3-digit Numbers

Name: _____ **Date:** _____

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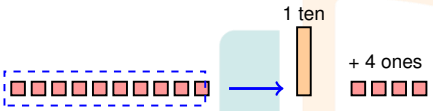
Section 1: Fluency — Visual Trading (Questions 1–10)

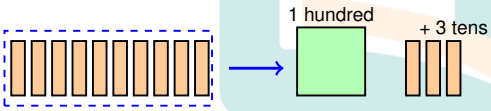
Instructions: Look at the trading diagrams and answer the questions.

Question 1: Trade 10 ones for 1 ten. What do you have now?



Answer: _____

Question 2: Trade 10 tens for 1 hundred. How many hundreds do you have?

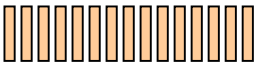


Answer: _____

Question 3: I have 12 ones. If I trade 10 ones for 1 ten, what do I have left?

Answer: _____

Question 4: Trade these blocks: 15 tens. Show what you get after trading.



Answer: _____

Question 5: If I trade 10 ones for 1 ten, and I start with 18 ones, how many tens and ones will I have?

Answer: _____

Question 6: Look at these blocks: 2 hundreds, 11 tens, 3 ones. Trade where possible. What is the new arrangement?

Answer: _____

Question 7: Trade 10 tens for 1 hundred. Start with 24 tens. What do you have?

Answer: _____

Question 8: I have 3 hundreds, 14 tens, and 6 ones. After trading, what do I have?

Answer: _____

Question 9: Show the trading: 5 hundreds, 17 tens, 12 ones. Write the new grouping.

Answer: _____

Question 10: Trade where needed: 1 hundred, 23 tens, 15 ones. What is your final arrangement?

Answer: _____

Good Job!

Why did the two fours skip lunch? Because they already eight (ate)!

Section 2: Reasoning — Text-Based Trading (Questions 11–20)

Instructions: Answer these questions about trading and regrouping.

Question 11: If I have 14 tens, I can trade them for ___ hundred and ___ tens.

Answer: _____

Question 12: Sam has 10 tens. He trades them for a flat. How many hundreds does he have?

Answer: _____

Question 13: Jenny has 25 ones. After trading, how many tens and ones does she have?

Answer: _____

Question 14: True or False: If I have 16 tens, I can trade for 1 hundred and 6 tens.

Answer: _____

Question 15: Marco has 4 hundreds, 12 tens, and 8 ones. What number does Marco have after trading?

Answer: _____

Question 16: If you trade 20 tens, you get ___ hundreds.

Answer: _____

Question 17: Lily has 19 ones. After making all possible trades, what does she have?

Answer: _____

Question 18: Complete: 6 hundreds and 15 tens = ___ hundreds and ___ tens.

Answer: _____

Question 19: Josh has 3 hundreds, 11 tens, and 14 ones. Write the number after all trades.

Answer: _____

Question 20: If I start with 27 tens and trade as many as I can, what do I have?

Answer: _____

Good Job!

What do you call a group of friends who love maths? Alge-bros!

Section 3: Challenge — Complex Rearranging (Questions 21–30)

Instructions: Use your knowledge of regrouping to solve these challenges.

Question 21: Write 1 204 in three different ways.

Answer: _____

Question 22: A number is made of 8 hundreds, 23 tens, and 5 ones. What is the number in standard form?

Answer: _____

Question 23: Can 456 be written as 3 hundreds and 156 ones? Explain.

Answer: _____

Question 24: Rearrange 742 to have the most tens possible (without using hundreds).

Answer: _____

Question 25: Express 920 as: ___ hundreds, ___ tens, ___ ones (three different ways).

Answer: _____

Question 26: If I have 5 hundreds and 38 tens, what number do I have?

Answer: _____

Question 27: Maya says 635 can be written as 63 tens and 5 ones. Is Maya correct?

Answer: _____

Question 28: Write 508 using only tens and ones (no hundreds).

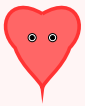
Answer: _____

Question 29: A mystery number is 12 hundreds and 4 tens. What is the mystery number?

Answer: _____

Question 30: Challenge: Express 999 in the most creative way using trading and regrouping.

Answer: _____



Good Job!

What's a maths teacher's favorite dessert? Pi!

Brilliant! You've completed Worksheet 4!

Answer Key — Worksheet 4

Year 3 Mathematics

Section 1: Fluency

1. 1 ten and 4 ones
2. 1 hundred and 3 tens
3. 1 ten and 2 ones
4. 1 hundred and 5 tens
5. 1 ten and 8 ones
6. 3 hundreds, 1 ten, 3 ones
7. 2 hundreds and 4 tens
8. 4 hundreds, 4 tens, 6 ones
9. 6 hundreds, 8 tens, 2 ones
10. 3 hundreds, 5 tens, 5 ones

Section 2: Reasoning

11. 1 hundred and 4 tens
12. 1 hundred
13. 2 tens and 5 ones
14. True
15. 528
16. 2 hundreds
17. 1 ten and 9 ones
18. 7 hundreds and 5 tens
19. 424
20. 2 hundreds and 7 tens

Section 3: Challenge

21. Example: 12 hundreds, 0 tens, 4 ones OR 120 tens, 4 ones OR 11 hundreds, 10 tens, 4 ones
22. 1 035
23. Yes (456 = 300 + 156)
24. 74 tens and 2 ones
25. Example: 9 hundreds, 2 tens, 0 ones OR 92 tens, 0 ones OR 8 hundreds, 12 tens, 0 ones
26. 880
27. Yes, correct (63 tens = 630, + 5 ones = 635)
28. 50 tens and 8 ones
29. 1 240
30. Example: 99 tens and 9 ones OR 9 hundreds, 9 tens, 9 ones OR 98 tens and 19 ones (Accept creative answers)