Merit Tutoring

Year 2 Mathematics

Place Value to 1000 - Worksheet 1

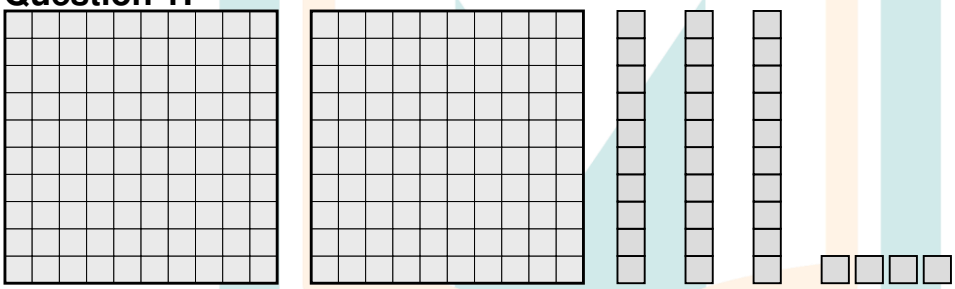
Modelling Numbers with MAB Blocks & HTO Charts

Name: _____ **Date:** _____

Section 1: Count the MAB Blocks (Fluency)

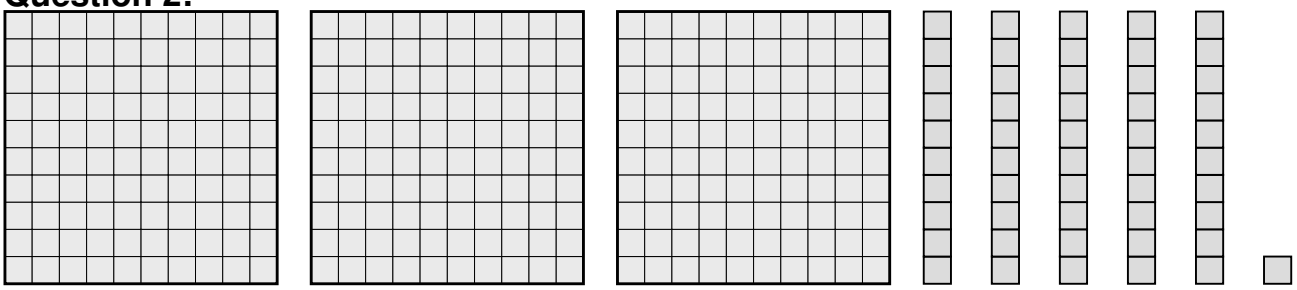
Look at the blocks below. Write the number that is shown.

Question 1:



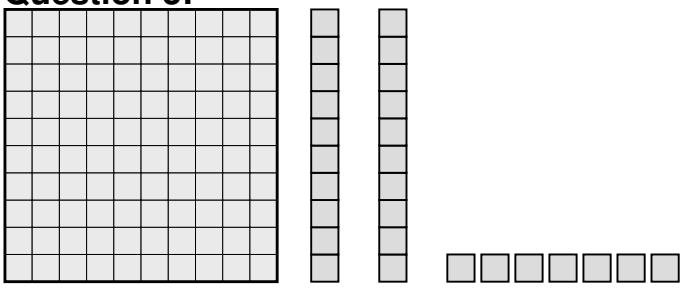
Answer: _____

Question 2:



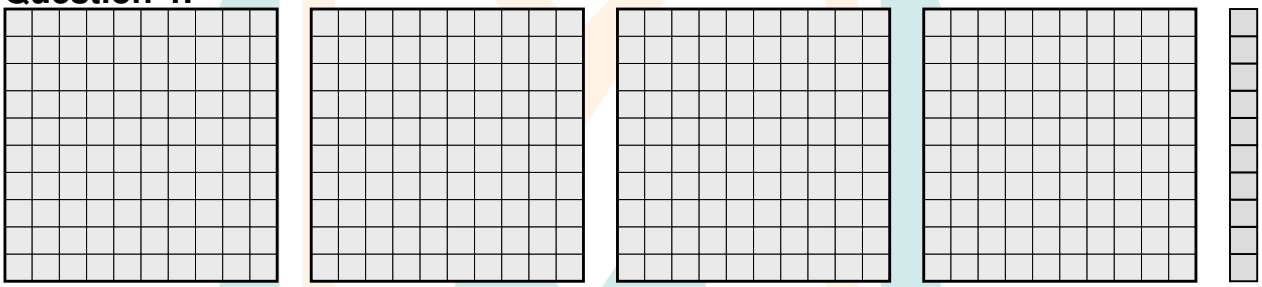
Answer: _____

Question 3:



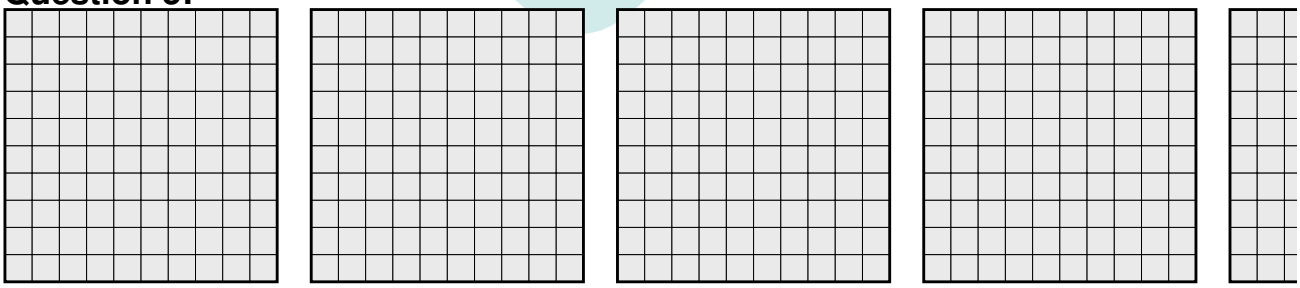
Answer: _____

Question 4:



Answer: _____

Question 5:



Answer: _____

Place Value Pro!

Why did the number 100 go to the party? Because it wanted to have a HUNDRED fun times!

Section 2: Draw the MAB Blocks (Reasoning)

Draw MAB blocks to show each number below.
Remember: Flat = 100, Long = 10, Small square = 1

Question 6: Draw blocks to show **152**

Question 7: Draw blocks to show **203**

Question 8: Draw blocks to show **340**

Question 9: Draw blocks to show **425**

Number Ninja!

What's a koala's favourite number? Koala-hundred! (200!)

Section 3: Value of Digits (Challenge)

Answer the questions about place value.

Question 10: In the number **482**, what is the value of the 4?

Answer: _____

Question 11: In the number **916**, which digit is in the Tens place?

Answer: _____

Question 12: In the number **357**, what is the value of the 5?

Answer: _____

Question 13: In the number **624**, which digit is in the Hundreds place?

Answer: _____

Question 14: In the number **809**, what is the value of the 0?

Answer: _____

Question 15: In the number **735**, which digit is in the Ones place?

Answer: _____

Question 16: In the number **561**, what is the value of the 1?

Answer: _____

Question 17: In the number **299**, what is the value of the first 9?

Answer: _____

Superstar Mathematician!

What did the zero say to the eight? Nice belt!

Answer Key

Worksheet 1: Modelling Numbers

Section 1: Count the MAB Blocks

1. 234 (2 Hundreds + 3 Tens + 4 Ones)
2. 351 (3 Hundreds + 5 Tens + 1 One)
3. 127 (1 Hundred + 2 Tens + 7 Ones)
4. 423 (4 Hundreds + 2 Tens + 3 Ones)
5. 510 (5 Hundreds + 1 Ten + 0 Ones)

Section 2: Draw the MAB Blocks

6. 152: Draw 1 Flat (Hundred), 5 Longs (Tens), 2 Small squares (Ones)
7. 203: Draw 2 Flats (Hundreds), 0 Longs, 3 Small squares (Ones)
8. 340: Draw 3 Flats (Hundreds), 4 Longs (Tens), 0 Small squares
9. 425: Draw 4 Flats (Hundreds), 2 Longs (Tens), 5 Small squares (Ones)

Section 3: Value of Digits

10. 400
11. 1
12. 50
13. 6
14. 0 (or zero)

15. 5

16. 1

17. 90

Year 2 Mathematics

Place Value to 1000 - Worksheet 2

Partitioning & Expanding Numbers

Name: _____ **Date:** _____

Section 1: Expanding Numbers (Fluency)

Break down each number into Hundreds, Tens, and Ones.

Question 1: Complete the sentence:

$$345 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_$$

Question 2: Write as a number:

$$600 + 20 + 8 = \_\_\_\_\_$$

Question 3: Complete the sentence:

$$572 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_$$

Question 4: Write as a number:

$$400 + 30 + 9 = \_\_\_\_\_$$

Question 5: Complete the sentence:

$$816 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_$$

Question 6: Write as a number:

$$700 + 0 + 5 = \_\_\_\_\_$$

Question 7: Complete the sentence:

$$209 = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_$$

Number Monster Champion!

Why was the equal sign so humble? Because it knew it wasn't greater than or less than anyone else!

Section 2: Missing Parts (Reasoning)

Find the missing number in each equation.

Question 8: Fill in the missing number:

$$500 + \_\_\_\_\_ + 7 = 527$$

Question 9: I have 4 Hundreds, 0 Tens, and 9 Ones. What number am I?

Answer: _____

Question 10: Fill in the missing number:

$$\_\_\_\_\_ + 60 + 3 = 363$$

Question 11: I have 7 Hundreds, 8 Tens, and 0 Ones. What number am I?

Answer: _____

Question 12: Fill in the missing number:

$$200 + 40 + \_\_\_\_\_ = 246$$

Question 13: Fill in the missing number:

$$\_\_\_\_\_ + 10 + 2 = 912$$

Place Value Star!

What's a number's favourite place to go? The hundreds place - it's got the MOST value!

Section 3: Regrouping & Renaming (Challenge)

Think carefully about these tricky questions!

Question 14: How many tens are in the number 120?
Hint: Think about how many groups of 10 make 120.

Answer: _____ tens

Question 15: Is 1 Hundred and 14 Tens the same as 240?
Circle your answer: YES NO

Question 16: How many ones are in the number 35?

Answer: _____ ones

Question 17: Which is bigger: 3 Hundreds and 15 Tens, or 450?

Answer: _____

Question 18: Complete: 200 = _____ tens

Question 19: True or False: 6 Hundreds and 5 Ones equals 650?
Circle your answer: TRUE FALSE

Question 20: I am 5 Hundreds and 13 Tens. What number am I?

Answer: _____

Amazing Math Genius!

What do you call a number that can't sit still? A roamin' numeral!

Answer Key

Worksheet 2: Partitioning & Expanding

Section 1: Expanding Numbers

1. $$345 = 300 + 40 + 5$$
2. $$600 + 20 + 8 = 628$$
3. $$572 = 500 + 70 + 2$$
4. $$400 + 30 + 9 = 439$$
5. $$816 = 800 + 10 + 6$$
6. $$700 + 0 + 5 = 705$$
7. $$209 = 200 + 0 + 9$$

   (or

   $$200 + 9$$

)

Section 2: Missing Parts

8. 20 (because

   $$500 + 20 + 7 = 527$$

)

9. 409
10. 300 (because

$$300 + 60 + 3 = 363$$

)

11. 780
12. 6 (because

$$200 + 40 + 6 = 246$$

)

13. 900 (because

$$900 + 10 + 2 = 912$$

)

Section 3: Regrouping & Renaming

14. 12 tens (because

$$120 = 12 \times 10$$

)

15. YES (because 1 Hundred = 100, 14 Tens = 140, so

$$100 + 140 = 240$$

)

16. 35 ones (because

$$35 = 35 \times 1$$

)

17. 3 Hundreds and 15 Tens is bigger. (It equals

$$300 + 150 = 450$$

, which equals 450, so they are the same! Accept either answer or "They are equal")

18. 20 tens (because

$$200 = 20 \times 10$$

)

19. FALSE (6 Hundreds and 5 Ones =

$$600 + 5 = 605$$

, not 650)

20. 630 (because 5 Hundreds = 500, 13 Tens = 130, so

$$500 + 130 = 630$$

)

Well Done, Year 2 Mathematicians!

You are Place Value Experts!

