1) a) 5 683 438.5

   b) 7 465 005.92

   c) 6 697 280.9

2) Open-ended questions. Look for answers where the unit parts total the complete number.

3) a) 2 257 583.4

   b) 4 002 780.9

   c) 7 404 323.1

   d) 7 150 821.7

   e) 3 006 602.5

1) Both children have partitioned the number correctly – they have both used non-standard partitioning.

2) Open-ended question. Look for any answer where the non-standard unit parts total the complete number.

3) a) 200 000 has been subtracted.

   b) 10 000 has been subtracted.

   c) 1.4 has been subtracted.

1) a) Meera would use 3 ones and they would represent 3000.

   b) Open-ended question.

   E.g. 3 000 000 + 530 000 + 2400 + 900 + 59.6

2) Open-ended question.

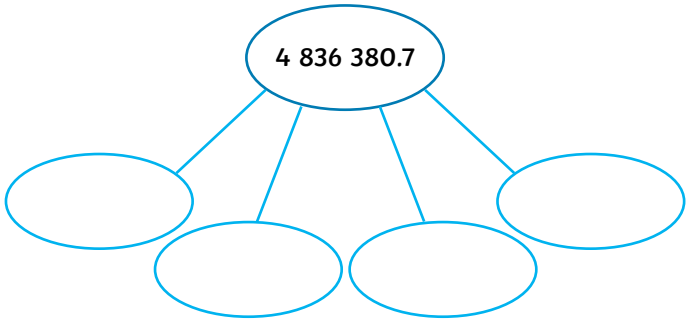
1) Write the numbers:

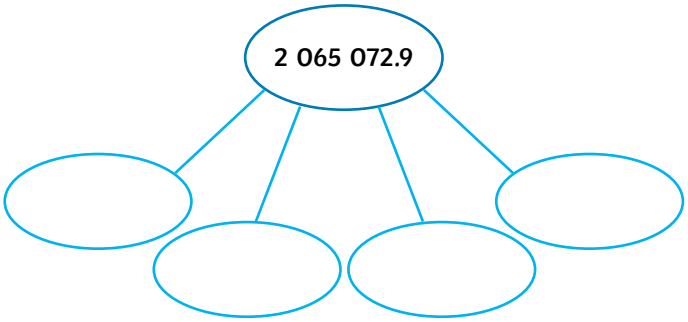
a) 4 000 000 + 1 681 000 + 2400 + 20 + 18.5 _____

b) 7 000 000 + 460 000 + 5002 + 3.92 _____

c) 3 000 000 + 3 600 000 + 97 200 + 80.9 _____

2) Partition these numbers into four parts using non-standard partitioning.





3) Complete the calculations.

a) 5 257 583.4 = 3 000 000 + _____

b) 4 000 500.9 + 2280 = _____

c) 7 404 523.1 – 200 = _____

d) 7 350 821.7 = 200 000 + _____

e) 3 005 400.3 + 1202.2 = _____

1) Meera and Gary are describing the number 2 345 037.5. Who has partitioned the number correctly? Explain your reasoning.

2345 thousands, 2 tens, 17 ones and 5 tenths

2 millions, 340 thousands, 503 tens and 75 tenths

2)

This is the only way to partition 4 231 005.78.

4 000 000	231 000
5.78	

Prove Gary wrong by finding a different way to partition 4 231 005.78.

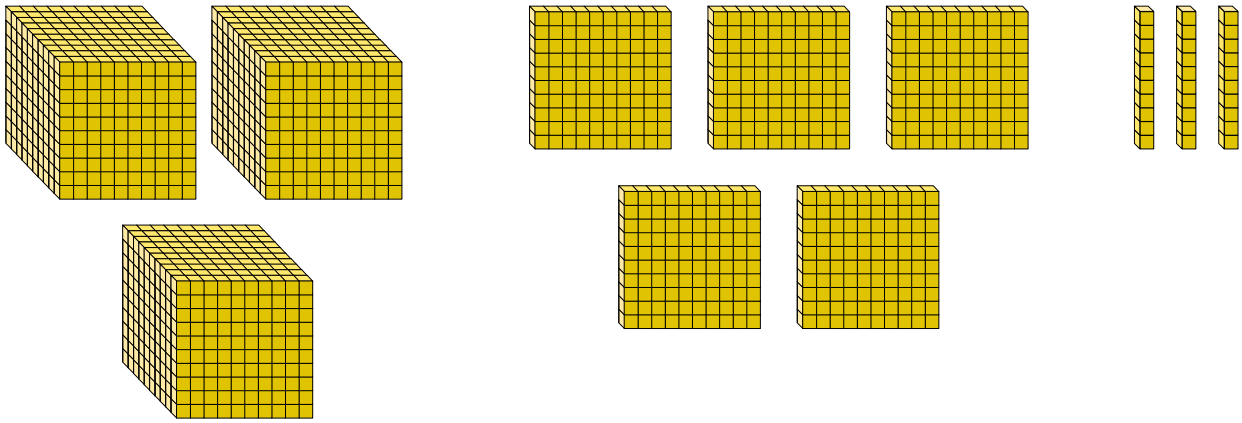
3) Explain what has been subtracted from each number.

a) 5 729 564.9 → 5 529 564.9 _____

b) 5 729 564.9 → 5 719 564.9 _____

c) 5 729 564.9 → 5 729 563.5 _____

1) Meera is using base ten equipment to represent the number 3 533 539.6. Here is some of the base ten equipment she has used for standard partitioning.



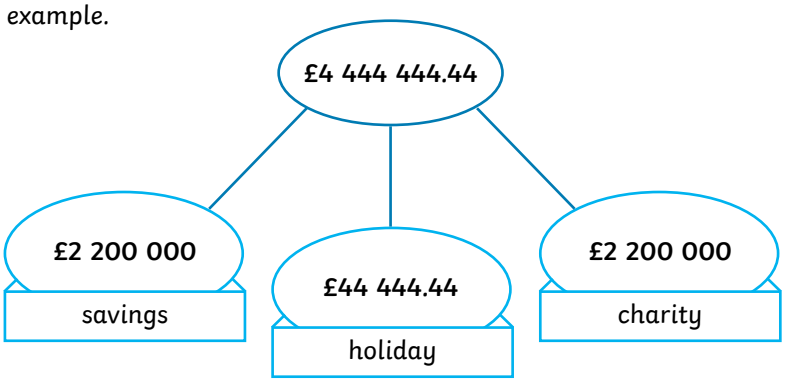
a) How many ones would Meera need to use? What would they represent?

b) Meera exchanges a thousands cube for ten hundreds flats. Investigate the different ways Meera can represent the number using non-standard partitioning and the base ten equipment.

2) Pop star, Buddy Eyelash, has made so much money he can't spend it all. His accountant has advised him to put some into his savings account, give some to charity and treat himself to a holiday but he's getting confused.

Find 10 different ways to show Buddy how he could partition £4 444 444.44

One has been done as an example.

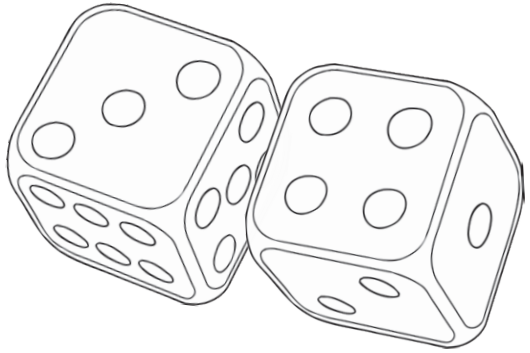


Non-Standard Partitioning: Roll and Read Game

To compose and partition numbers up to 10 million using non-standard partitioning.

Instructions

- On your turn, roll the dice.
- Choose one of the numbers on the row that matches the number you rolled.
- Partition the number shown using non-standard partitioning.
- If your partner thinks you are correct, colour and claim that representation.
- Claim four in a line to win.



⚀	2 327 943.5	5 218 045.4	9 045 578.9	4 562 200.56	3 671 004.7	5 783 229.8
⚁	4 236 054.6	1 014 156.5	6 108 789	7 829 311.67	1 731 115.8	2 902 330.9
⚂	8 018 165.7	7 873 267.6	2 565 890	1 179 422.78	9 382 226.9	7 039 441
⚃	3 128 276.8	4 319 378.7	8 246 901	6 463 533.89	4 972 337	8 184 552.1
⚄	9 537 387.9	8 915 489.8	5 309 012	2 030 844.9	7 332 448.1	3 803 663.2
⚅	6 919 498	3 474 590.9	9 466 123	5 680 955	2 783 559.2	6 240 774.3

Record your non-standard partitioning as an addition sentence as you play the game.

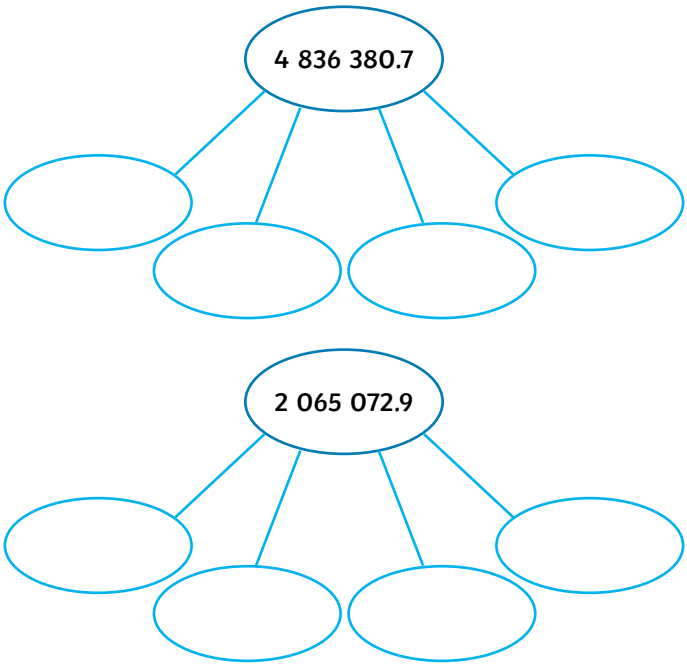
1) Write the numbers:

a) 4 000 000 + 1 681 000 + 2400 + 20 + 18.5

b) 7 000 000 + 460 000 + 5002 + 3.92

c) 3 000 000 + 3 600 000 + 97 200 + 80.9

2) Partition these numbers into four parts using non-standard partitioning.



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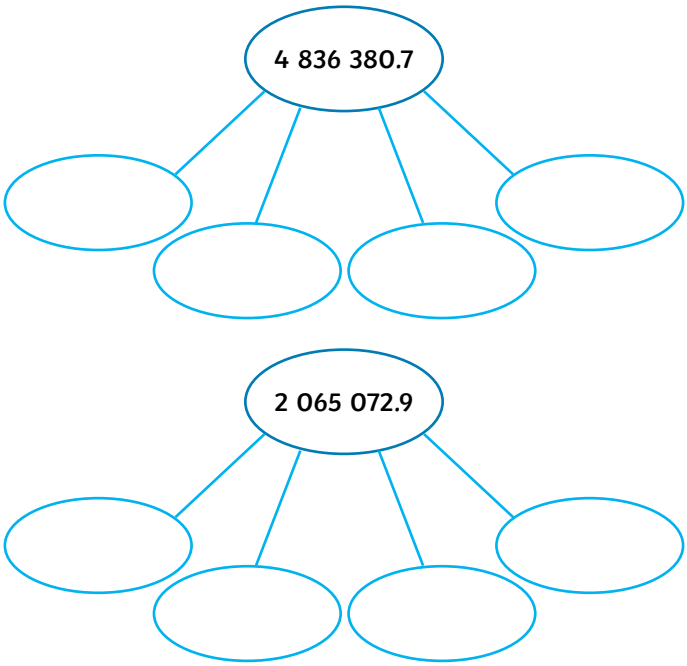

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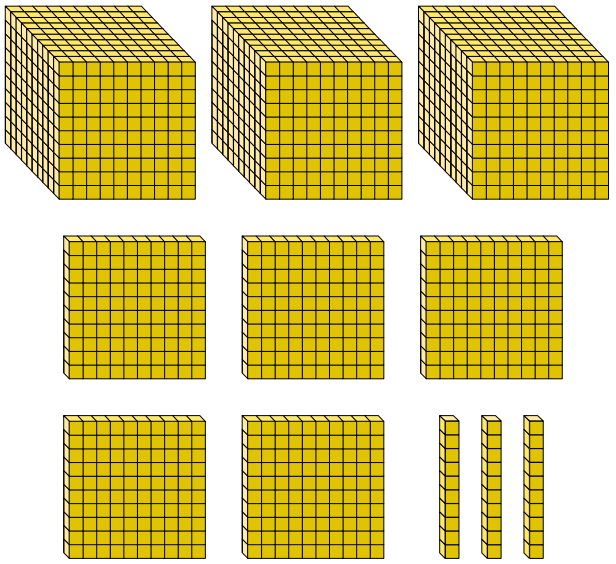

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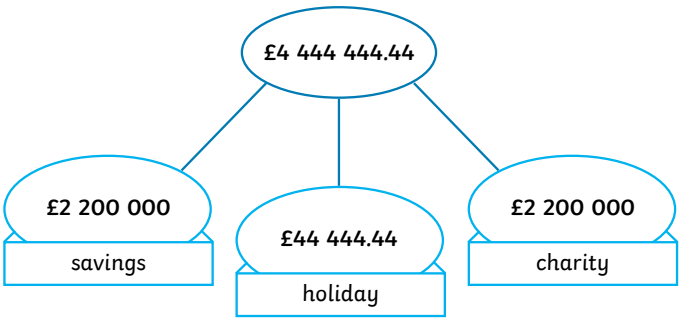

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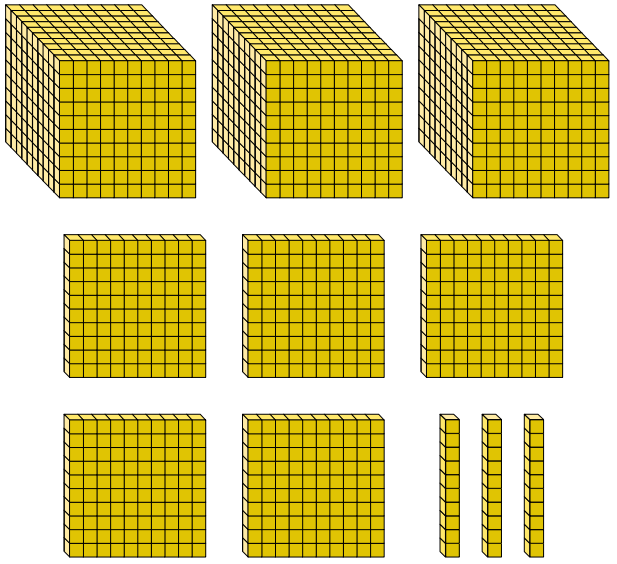

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