

max maths primary

A SINGAPORE APPROACH

Workbook

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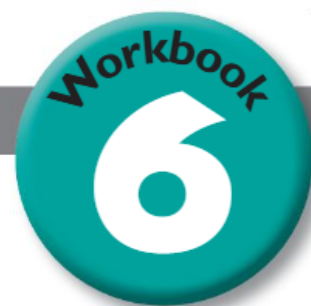


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Preface

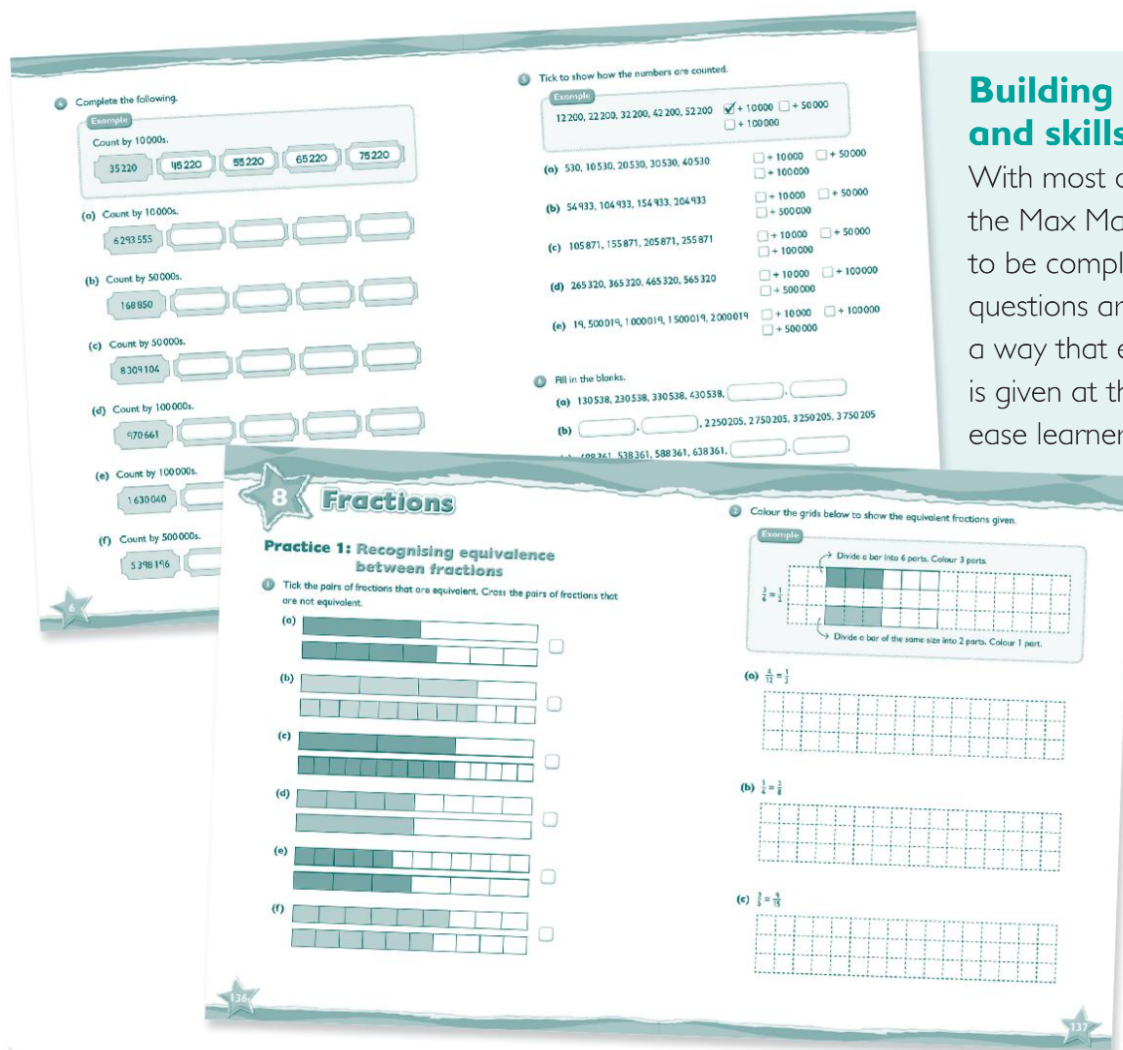
max maths Primary – A Singapore Approach is a mathematics course specially designed to meet the needs of learners following the **Cambridge Primary** curriculum framework in Stages 1 to 6.

The **Max Maths Primary** workbooks guide learners through key mathematical concepts, addressing the learning objectives in the **Cambridge Primary** curriculum framework. With plenty of scaffolded practice, the workbooks support the learning process at home and will help to further develop learners' enthusiasm towards learning.

Workbook features

Building on concepts and skills

With most of the activities in the Max Maths workbooks to be completed at home, questions are scaffolded in a way that extra support is given at the beginning to ease learners into the task.



Engaging photographs and illustrations

Rich illustrations and photographs help to engage learners and encourage an enthusiastic approach to learning mathematics.

Practice 4: Measuring mass

1 Read the measurements and write the mass of each food.

(a)



(b)



(c)

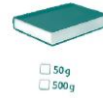


(d)



2 Look at the objects below. Tick a suitable mass for the object.

(a)



(b)



(c)



(d)



(e)



(f)



Practice 3: Measuring length

1 Estimate the length of the lines in centimetres. Use a ruler to measure the actual length.

(a)

Estimate: cm
Actual length: cm mm

(b)

Estimate: cm
Actual length: cm mm

(c)

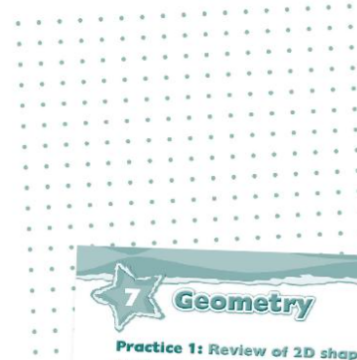
Estimate: cm
Actual length: cm mm

(d)

Estimate: cm
Actual length: cm mm

2 Use the dotted paper below to draw the following lines:

- (a) A blue line of length 6.9 cm
- (b) A green line of length 14.3 cm
- (c) A red line of length 10.6 cm
- (d) An orange line of length 0.8 cm



Concrete, pictorial to abstract

Questions are graduated in a way that guides learners through the sequence from concrete, pictorial to abstract understanding of concepts.

7 Geometry

Practice 1: Review of 2D shapes

Match the plane shapes to the correct name.

(a)



• circle

(b)



• pentagon

(c)



• square

(d)



• octagon

(e)



• rectangle

(f)



• hexagon

(g)



• triangle

Practice 2: Polygons

Complete these Carroll diagrams by drawing at least 3 shapes in each cell.

(a)

	Polygon	Not a polygon
Contains a right angle		
Does not contain a right angle		

(b)

	Polygon	Not a polygon
Pentagon		
Not a pentagon		

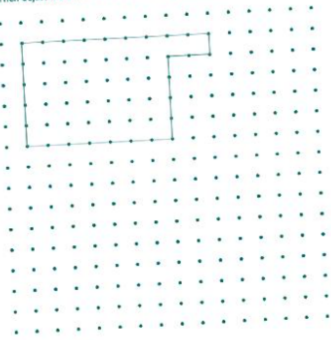
Problem Solving

A shape is drawn based on the following:

- 6 straight edges
- a perimeter of 28 cm
- the shortest side is 1 cm
- the longest side is 9 cm

Make another 6-sided shape that has a perimeter of 34 cm.

(You may find it easier to start by drawing the longest and shortest sides first. Then adjust the other sides to produce a perimeter of 34 cm.)



Self-guided problem solving

Problem-solving activities are embedded within practices for learners to combine knowledge of mathematics content and problem-solving skills.

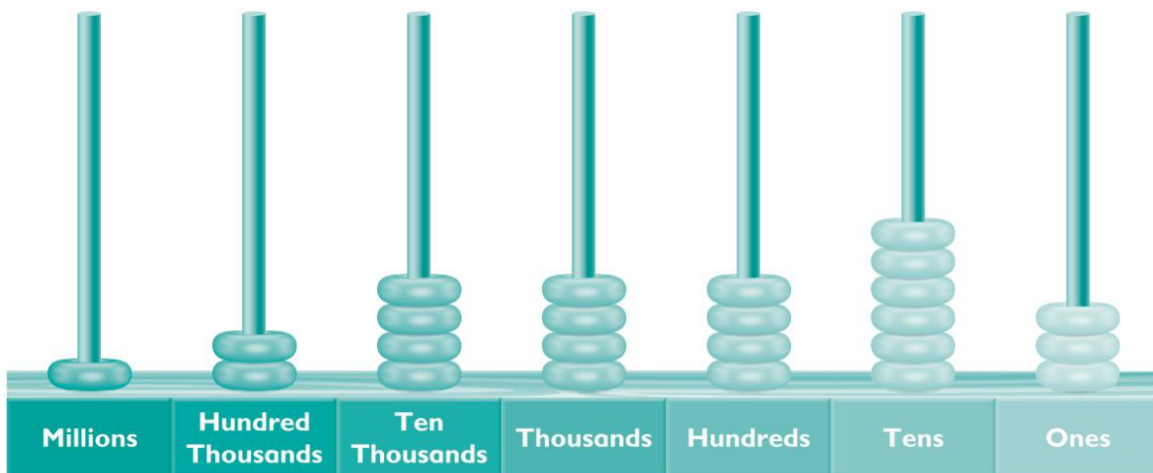


Numbers up to 1 000 000

Practice 1: Numbers to the millions

1 Complete the following.

(a)



1	0	0	0	0	0	0
	2	0	0	0	0	0

1						
---	--	--	--	--	--	--

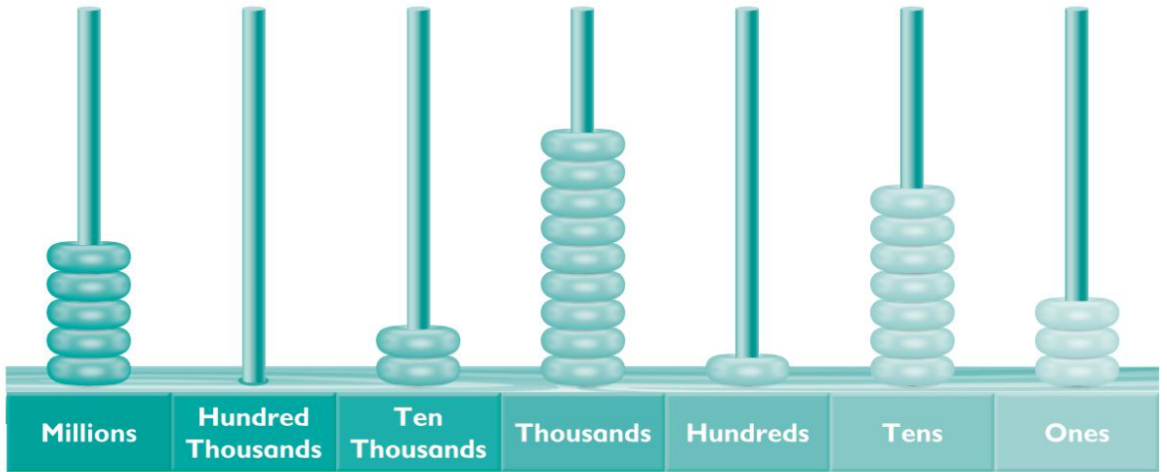
one million

two hundred thousand

One million, two hundred and



(b)



4	0	2	6	1	5	3
	0	0	0	0	0	0
		0	0	0	0	0
			0	0	0	0
				0	0	0
					0	0
						0
4	0	2	6	1	5	3

2 Write the numbers in words.

(a) 2310487

(b) 5094105

(c) 6782439

(d) 8451123

3 Write the numbers in numerals.

(a) three million, six hundred and fourteen thousand, two hundred and two

(b) five million, five hundred and fifty-five thousand, four hundred and eleven

(c) six million, one hundred and ninety-two thousand and eighty-three

(d) seven million and forty-eight

4 Complete the following.

Example

Count by 10 000s.

35 220

45 220

55 220

65 220

75 220

(a) Count by 10 000s.

6293555

(b) Count by 50 000s.

168850

(c) Count by 50 000s.

8309104

(d) Count by 100 000s.

970661

(e) Count by 100 000s.

1 630 040

(f) Count by 500 000s.

5398196

5 Tick to show how the numbers are counted.

Example

12 200, 22 200, 32 200, 42 200, 52 200 + 10 000 + 50 000
 + 100 000

(a) 530, 10 530, 20 530, 30 530, 40 530

+ 10 000 + 50 000
 + 100 000

(b) 54 933, 104 933, 154 933, 204 933

+ 10 000 + 50 000
 + 500 000

(c) 105 871, 155 871, 205 871, 255 871

+ 10 000 + 50 000
 + 100 000

(d) 265 320, 365 320, 465 320, 565 320

+ 10 000 + 100 000
 + 500 000

(e) 19, 500 019, 1 000 019, 1 500 019, 2 000 019

+ 10 000 + 100 000
 + 500 000

6 Fill in the blanks.

(a) 130 538, 230 538, 330 538, 430 538, ,

(b) , , 2 250 205, 2 750 205, 3 250 205, 3 750 205

(c) 488 361, 538 361, 588 361, 638 361, ,

(d) 6 370, 16 370, , 36 370, 46 370, 56 370,

(e) , , 500 288, 600 288, 700 288, 800 288

(f) 304 905, , 1 304 905, 1 804 905, 2 304 905,

(e) 



The factors of are , , , , ,
, and .

is a number.

(f) 



The factors of are , , , ,
and .

is a number.

2 Complete the following.

(a) The factors of 17 are .

17 is a number.

(b) The factors of 22 are .

22 is a number.

(c) The factors of 30 are .

30 is a number.

(d) The factors of 44 are .

44 is a number.

(e) The factors of 47 are .

47 is a number.

(f) The factors of 48 are .

48 is a number.

(g) The factors of 52 are .

52 is a number.

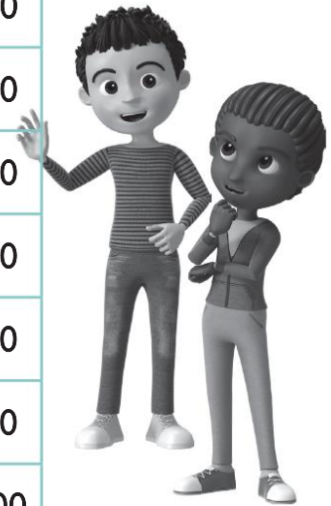
(h) The factors of 61 are .

61 is a number.

3 Complete the following.

(a) Cross out all the composite numbers and circle all the prime numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



(b) List all of the prime numbers within 100.

, , , , , , , ,

, , , , , , , ,

, , , , , ,

(c) There are 25 prime numbers between 1 and 100. Do you think there are more or fewer prime numbers between 101 and 200? Why?

- 4 Read the statements. Tick if they are true or false. Give a reason for your answer.

Example

33 is a prime number.

True

False

33 is a composite number. It has factors of 1, 3, 11 and 33.

(a) 67 is a prime number.

True

False

(b) 2 is a composite number.

True

False

(c) 63 is a prime number.

True

False

(d) 81 is a prime number.

True

False

- 5 Read the clues and fill in the numbers. (Hint: All the numbers are below 100.)

1				2	3	
4	5				6	
	7	8				
		9			10	
11				12		
13	14		15			
	16					

Across

2. I am a composite number greater than 70. One of my factors is 9.
4. I am a prime number between 10 and 20. The sum of my digits is 8.
6. I am the 11th prime number.
7. I am a 2-digit composite number. One of my factors is 9.
9. I am a prime number between 40 and 50. My last digit is a multiple of 3.
10. I am a composite number with factors 1, 2, 5, 10, 25, 50.
12. I am a prime number greater than 15 and less than 20. My last digit is a multiple of 3.
13. I am the second to last prime number less than 100.
15. I am the prime number before 43.
16. I am a composite number less than 100 that has 35 as a factor.

Down

1. I am a composite number between 20 and 30. One of my factors is 7.
3. I am the 9th prime number.
5. I am a prime number between 70 and 80.
8. I am a composite number greater than 60. One of my factors is 8.
10. I am the greatest prime number between 50 and 60.
11. I am a composite number greater than 20 and less than 30. One of my factors is 7.
12. I am the only prime number less than 100 whose digits are the same.
14. I am the only prime number between 90 and 100.



6 Connect the lock to the key by circling the path of prime numbers between them. You may use a calculator to find the prime numbers.



75	21	117	123	70	20	81	18	3	108
35	51	94	124	133	92	105	71	14	135
112	125	77	129	76	25	53	100	38	56
126	32	138	130	120	8	7	84	42	106
45	6	72	116	82	63	90	83	97	134
98	93	57	99	52	110	9	48	36	67
66	69	136	40	54	104	39	91	65	59
85	10	78	95	60	121	118	44	62	29
16	49	26	30	28	12	122	17	23	140
27	46	128	4	68	33	2	80	88	114

