



Chinese Development of Maths

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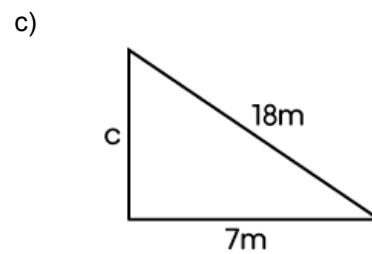
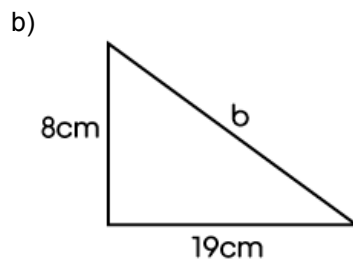
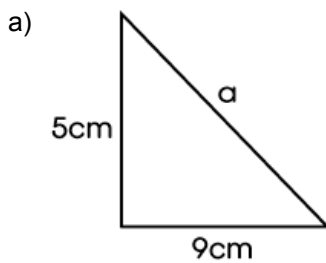
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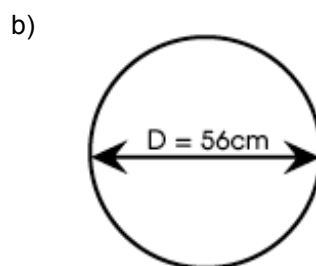
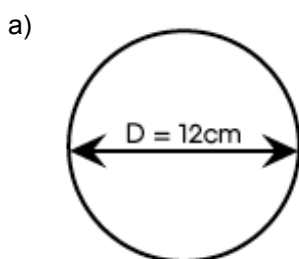


Basic

1) Find the unknown side in each of the following:



2) Find the circumference of each circle:



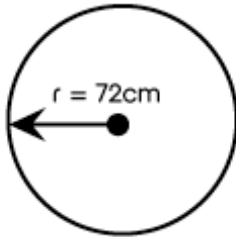


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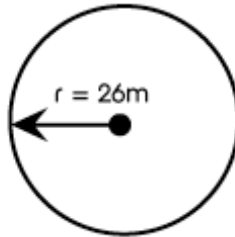
Basic

3) Find the area of each circle:

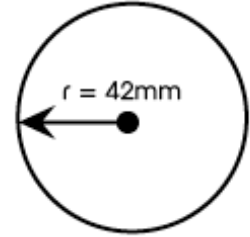
a)



b)



c)





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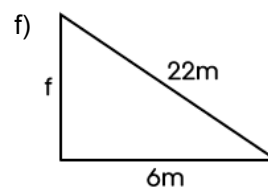
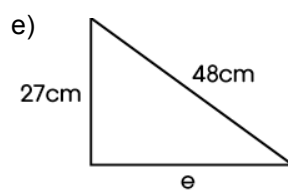
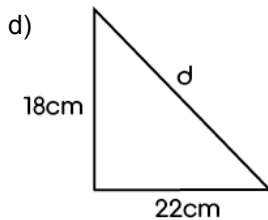
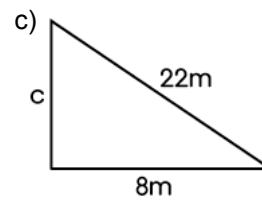
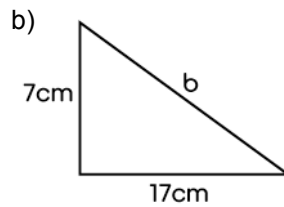
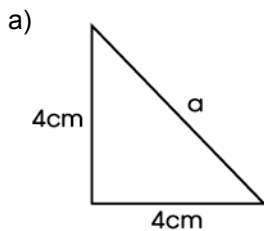
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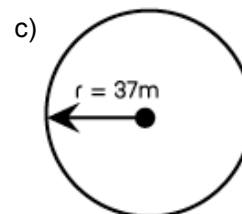
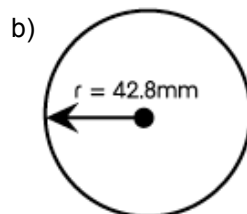
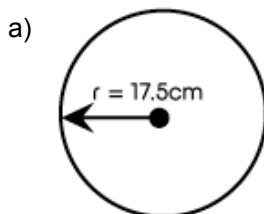


Core

1) Find the length of the unknown side in each of the following:



2) Find the area of each of the following circles:





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Core

3) Complete the following magic squares:

1			4
	6	7	
	10	11	
13			16

14	11	8	1
4	5		15
9	16	3	6

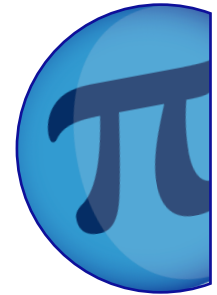


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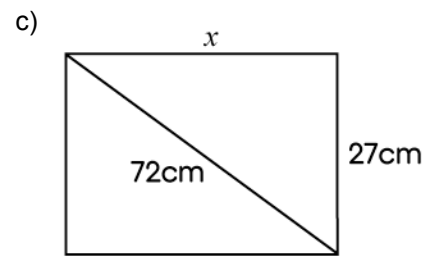
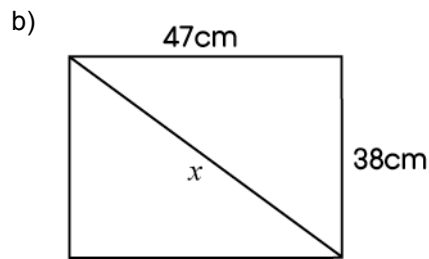
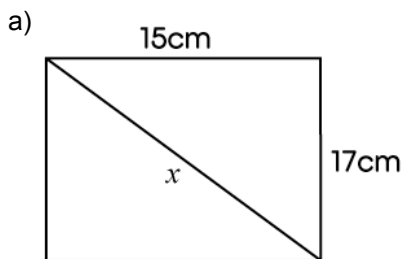
CLASS:

DATE:



Advanced

1) Find the lengths of the unknown sides:



2) Complete the following magic squares:

6	20	11	
13	15	8	
		21	7
19	9		12

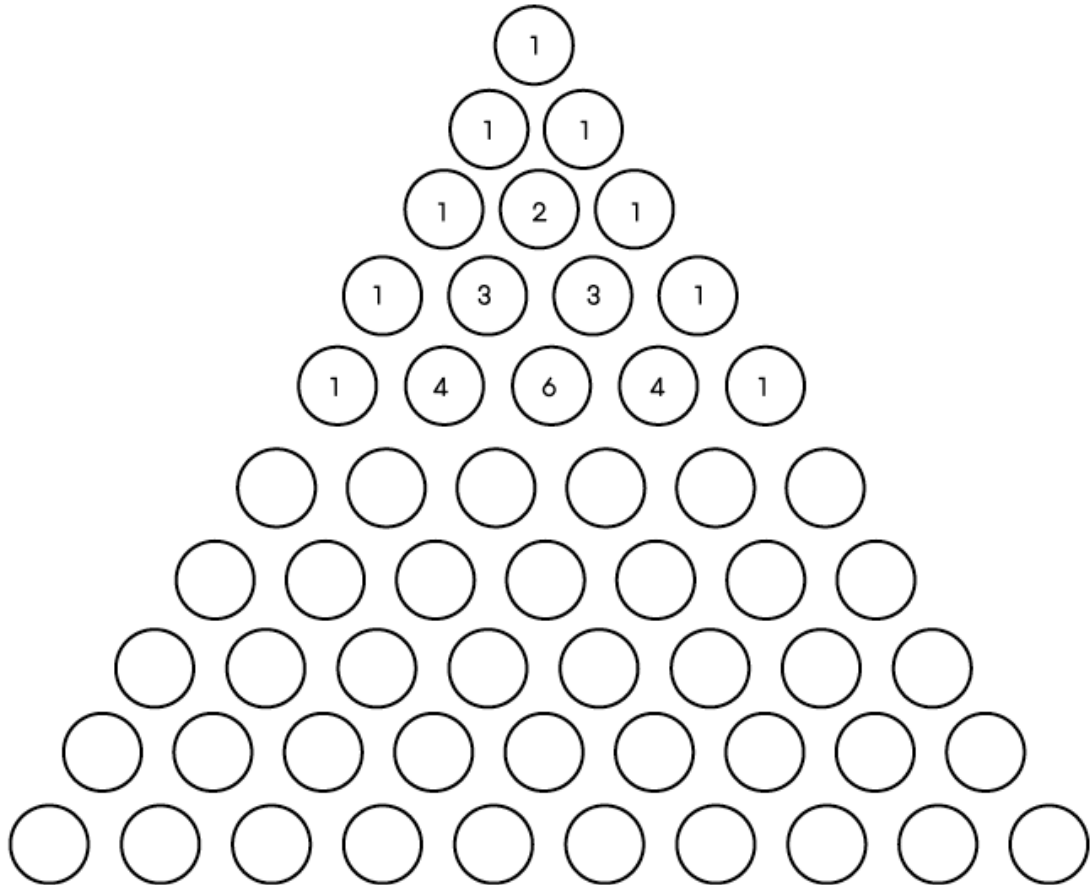
44	51	38	41
42	37		47
49	46	43	36



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Advanced

3) Complete Pascal's triangle by adding the two numbers below each circle:





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ANSWERS

Basic

1) a) $a = 10.3\text{cm}$

b) $b = 20.6\text{cm}$

c) $c = 16.6\text{m}$

2) a) 37.7cm

b) 175.9cm

c) 72.3m

3) a) $16,286.02\text{cm}^2$

b) 2123.72m^2

c) 5541.77mm^2

Core

1) a) $a = 5.7\text{cm}$

b) $b = 18.4\text{cm}$

c) $c = 20.5\text{m}$

d) $d = 28.4\text{cm}$

e) $e = 39.7\text{cm}$

f) $f = 21.2\text{m}$

2) a) 962.11cm^2

b) 5754.90mm^2

c) 4300.84m^2

3)

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

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

Advanced

1) a) 22.67cm

b) $b = 60.44\text{cm}$

c) $c = 66.75\text{cm}$



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ANSWERS

Advanced continued ...

2)

6	20	11	17
13	15	8	18
16	10	21	7
19	9	14	12

44	51	38	41
42	37	48	47
49	46	43	36
39	40	45	50

3)

