Review circle: definition and notation
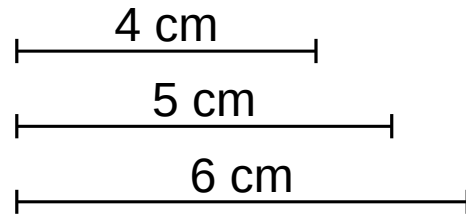
1.Plot the required circles:

1. v = Circ(A, 4 cm)

2. w= Circ (A, 6 cm)

3. g = Circ(B, 6 cm)

4. h = Circc(C, 5 cm)

4 cm

5 cm

6 cm

A

B

C

2. Plot an equilateral triangle △***PQR***, record your algorithm

1. _____

2. _____

3. _____

4. _____

P •

Q •

2. Present each number as a product of prime factors:

a). 96 = _____   b). 72 = _____

c). 216 = _____   d). 100= _____

e). 280 = _____   f). 365 = _____

3. Using the Sieve of Eratosthenes (on the reverse of this sheet), try to find all prime numbers between 1-100. [You only need to cross out multiples of numbers up to 11 (or actually 7).]

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

4. Additional problem: A broken robot policeman issues a speeding ticket to each 36th car and red light ticket to each 48th car. How often do drivers get two tickets?