CBSE Mock Test Answers

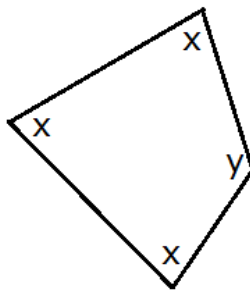## Mathematics Class IX, SA2

By Dev Anoop

2015

Answers Mathematics Mock Test SA2, 2014 – 2015
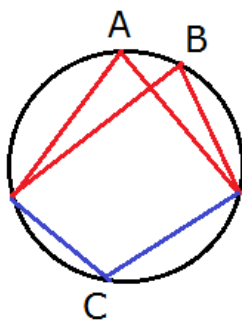**Paper and Answers by Dev Anoop (Bathinda)**

Section A - 1 Mark Each

1. No, difference of two sides is not less than third side.

2. $2m - l$

3. remain same.

4. 1:4

Section B - 2 Marks Each

5. No, since 2 pairs of opposite angles are not equal.

6. False, they are equal only if they are in same segment. In figure $\angle A = \angle B \neq \angle C$

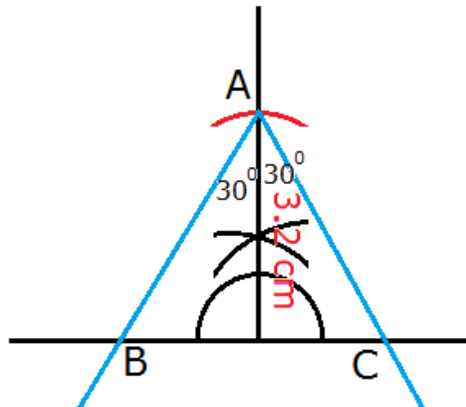Visit cbsemath.com for NCERT Mathematics Solutions, CBSE Sample Papers etc.

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7.

8.   Let cost of pen = Rs x, cost of notebook = Rs y, x − 3y = 0

9.   False, not true if class intervals are unequal.

10. $\dfrac{1}{7}$

Section C - 3 Marks Each

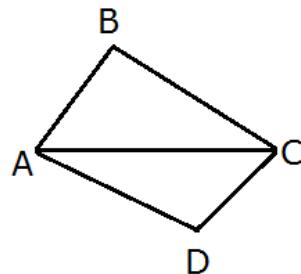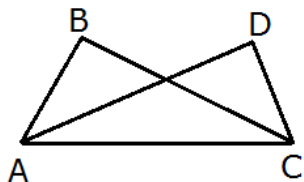11.   Hint: Use median divides a triangle into 2 triangles equal in area.

12.

13.   Prove the 2 triangles congruent and then add common region

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14.

Prove for both figures

15. $y = \dfrac{8}{3}x - \dfrac{17}{3}$

16.   (7.5, 0), (0, - 5)

17.   First 10 odd prime numbers are 3, 5, 7, …
Mean = 15.8,

18. $\dfrac{7}{8}$, value - honesty
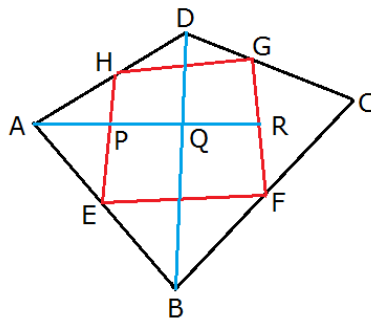
19. $\dfrac{27}{40}, \dfrac{13}{40}$

20.   3 cm, 50.28 cm^3

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Section D - 4 Marks Each

21.   Hint
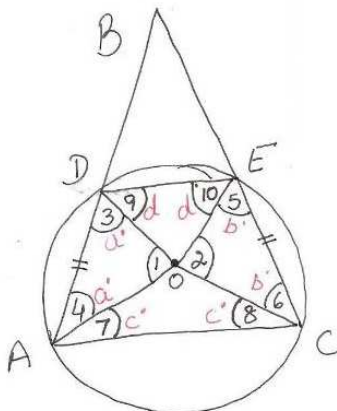Constuction: Draw AR ⊥ FG intersecting EH at P and diagonal BD at Q

22.

23.

24.

Note: For complete proof of Q21. visit CBSE HOTS section of devanoop.me

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25. 6x – y + 6 = 0, Rs 46, honesty

26. y = mx where y represents force, x acceleration, m constant mass.

27. Hint: Calculate adjusted frequency.

28. Hint: Let radius = 10x, Increased radius = 11x.

29. radius of cone = 5cm, height of cone = 12 cm, volume = 314 cm^3

30. 62.8 + 0.2 = 63m

31. Hint: Let steel actually used = x

    $x - \dfrac{x}{12}$ = T.S.A. , 59.4 m^2, 95.04 m^2

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