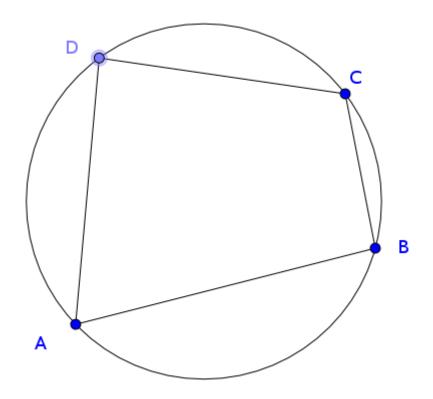
Samavakyangal

Question.1. In the figure sum of $\angle A$ and $\angle C$ is 180°. If $\angle C$ is 30° more than two times that of $\angle A$ find measures of $\angle A$ and $\angle C[Marks : (3)]$



Ans. $\angle A = x$

$$\angle C = 2x + 30$$

$$x+2x+30 = 180$$

$$x = 50$$

$$\angle A = 50^{\circ}, \angle C = 130^{\circ}$$

Question.2. A team of 5 members went for a circus. The total expense for the ticket and food was Rs.490. They spent Rs. 240 for food. What is the price a ticket?

[Marks:(2)]

Ans.
$$5x + 240 = 490$$

$$5x = 250$$

$$x = 50$$

Question.3. Rani has some money with her. She gave Rs. 13 to Sindhu. The balance with Rani is 65. How much money did she had in all ?[Marks:(2)]

Ans.
$$x - 13 = 65$$

$$x = 65 + 13 = 78$$

Question.4. In the figure sum of $\angle A$ and $\angle C$ is 180°. If $\angle C$ is 30° more than two times that of $\angle A$ find measures of $\angle A$ and $\angle C[Marks:(3)]$

Ans. $\angle A = x$

$$\angle C = 2x + 30(1)$$

$$x+2x+30 = 180 (1)$$

$$x = 50$$

$$\angle A = 50^{\circ}, \angle C = 130^{\circ} (1)$$

Question.5. 6 is subtracted from 4 times of a number is equal to 3 times the the same number added to 4. Find the number.[Marks:(3)]

Ans. 4x-6=3x+4

x = 10

Question.6. went for a circus. The total expense for the ticket and food was Rs.490. The spent Rs. 240 for food. What is the price a ticket?[Marks:(2)]

Ans. 5x + 240 = 490

5x = 250

x = 50

Question.7. The time taken to paint a toy is 1/4th of the time required to make a toy. If it took 10 minutes to paint the toy, how much time is required to make a toy?

[Marks:(2)]

Ans.
$$X/4 = 10$$

$$x = 4 \times 10 = 40 \text{ mts}$$

Question.8. Rani has some money with her. She gave Rs. 13 to Sindhu. The balance with Rani is 65. How much money did she had in all ?[Marks:(2)]

Ans. x - 13 = 65

$$x = 65 + 13 = 78$$

Question.9. An angle of regular polygon is 40° more than 3 times of its exterior angle. Find the measure of one exterior and one interior angle?[Marks:(3)]

Ans. Exterior angle = x° Interior angle = $(3x + 40)^{\circ}$

$$= x + 3x + 40 = 180^{\circ}$$

$$x = 35^{\circ}$$

Question.10. Age of a daughter is 3 more than that of son. Age of father is three times that of son. If the sum of the age of father and the daughter is 67. Find their age?

[Marks:(5]

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Ans. Age of son = x

Age of daughter= x + 3

Age of father= 3x

3x + x + 3 = 67

x = 16

Age of son = x = 16

Age of daughter= x + 3 = 19

Age of father= 3x = 48
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Question.11. Cost of a book is 20 more than that of 2 times the pen. Cost of 6 pen and 7book is 240. What is the cost of a pen and a book?[Marks:(5]

Ans. cost of one pen = xcost of a book = 2x + 20cost of 7 books = 7(2x+20)cost of 6 pens = 6x 7(2x+20) + 6x = 240 14x + 140 + 6x = 240 x = 5cost of a pen = 5cost of a book = 30

Question.12. Cost of a book is 3 more than that of 4 times the pen. Cost of a pen and book is 43. What is the cost of a pen and a book?[Marks:(4]

Ans. price of one pen= x,price of one book= 4x + 3 x+4x+3 = 43x=8

Question.13. A square is marked including 4 adjacent numbers in a calendar. If the sum of these numbers is 60, Find the numbers?[Marks:(4]

Ans. numbers x,x+1,x+7,x+8 x+x+1+x+7+x+8=60 4x=44