

Subject – Mathematics

Class – VI

Set - 1

TIME: - 3 Hrs.

M.M.:- 80

Instructions:-

- (i) Read all question carefully before attempting them.
- (ii) All questions are compulsory.
- (iii) Marks are allotted against questions.
- (iv) Write the answers against the space provided.
- (v) Write neatly and clearly.

SECTION – A

Answer the following:

(1 X 5 = 5)

Que.1. The greatest prime factor of 35 is _____

- (a) 11 (b) 7 (c) 5 (d) 35

Que.2. How many lines can pass through two given points?

- (a) Infinite (b) 2 (c) 1 (d) 25

Que.3. Arrange the following in descending order:

1652, 62131, 6311, 86322

Que.4. 5 is the _____ of 6 (predecessor/successor)

Que.5. Find the product by suitable rearrangement:

$4 * 56 * 25$

SECTION – B

Answer the following:

(2 X 10 = 20)

Que.6. Simplify $\frac{1}{2} + \frac{2}{3} + \frac{3}{4}$

Que.7. The ratio of 81 : 108 is same as

- (a) 9 : 14 (b) 3 : 4 (c) 4 : 3 (d) 12 : 5

Que.8. Shikha is rowing a boat due north west. In which direction will she be rowing if she turns it through:

- (a) Straight angle
- (b) A complete angle

Que.9. Find the equivalent fraction of $\frac{3}{4}$ having numerator 24.

Que.10. Write all the integers between -7 and 3.

Que.11. The sum of two integers is -6. If one of them is 2, then the other is?

Que.12. How many right angles do you make if you start facing

- (a) South and turn to north?
- (b) South and turn clockwise to west?
- (c) North and turn anti-clockwise to east?
- (d) West and turn to west?

Que.13. A box contains 2,00,000 medicine tablets each weighing 20 mg. What is the total weight of all the tablets in the box in grams and in kilograms?

Que.14. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of triangle you have drawn.

Que.15. Write the following numbers with appropriate signs :

- (a) 100 m below sea level.
- (b) 25°C above 0°C temperature.

SECTION – C

Answer the following:

(3 X 5 = 15)

Que.16. By arranging the like terms together and then add.

- (a) $5x + 3y$, $4x - 4y + z$ and $-3x + 5y + 2z$
- (b) $3a^2 + ab - b^2$, $-a^2 + 2ab + 3b^2$ and $3a^2 - 10ab + 4b^2$

Que.17. 20 apples are distributed between Aaron and Ben in the ratio 2 : 3. Find, how many does each get?

Que.18. Present age of father is 42 years and that of his son is 14 years. Find the ratio of

- (a) Present age of father to the present age of son.
- (b) Age of the father to the age of son, when son was 12 years old.
- (c) Age of father after 10 years to the age of son after 10 years.
- (d) Age of father to the age of son when father was 30 years old.

Que.19. A piece of string is 120 cm long. What will be the length of each side if the string is used to form:

- (a) a regular pentagon
- (b) a square
- (c) a regular hexagon
- (d) a equilateral triangle

Que.20. The population of 4 major cities in India in a particular year is:

City	Mumbai	Kolkata	Delhi	Chennai
Population (in lakhs)	120	130	110	80

Construct a bar graph to illustrate the above data.

SECTION – D

Answer the following:

(4 X 10 = 40)

Que.21. Find the rule which gives the number of matchsticks required to make the following matchstick patterns. Use a variable to write the rule.

- (a) A pattern of letter V as
- (b) A pattern of letter A as
- (c) A pattern of letter S as
- (d) A pattern of letter T as

Que.22. (a) Which is larger $\frac{3}{4}$ or $\frac{5}{12}$?

(b) Compare $\frac{7}{8}$ and $\frac{5}{6}$

Que.23. (a) The town newspaper is published every day. One copy has 12 pages. Everyday 12,280 copies are printed. Find how many total pages are printed every day?

- (b) A vessel contains 3 l and 500 ml of milk. Find in how many glasses, each of 35 ml capacity, can it be filled?

Que.24. Draw an angle of 40° . Copy its supplementary angle.

Que.25. Write each of the following as a decimal.

(a) $200 + 30 + 5 + \frac{2}{10} + \frac{9}{100}$

(b) $50 + \frac{1}{10} + \frac{6}{100}$

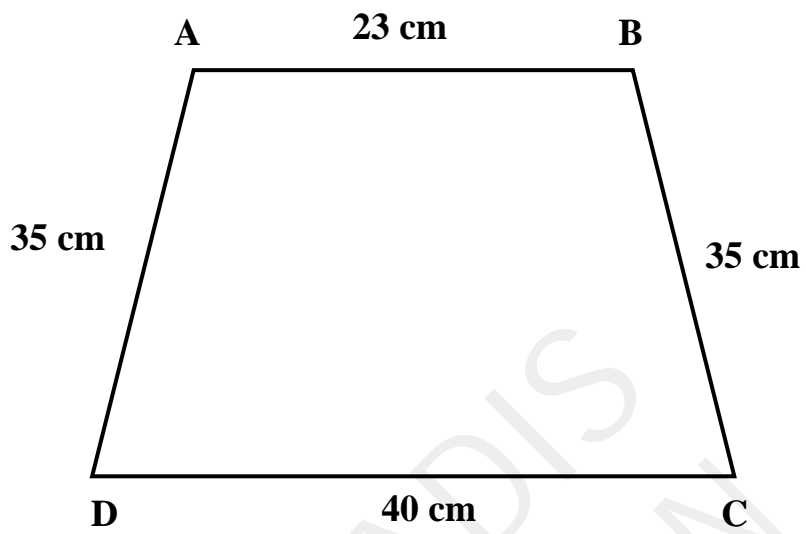
(c) $16 + \frac{3}{10} + \frac{5}{1000}$

Que.26. Draw the perpendicular bisector of XY whose length is 10.3 cm.

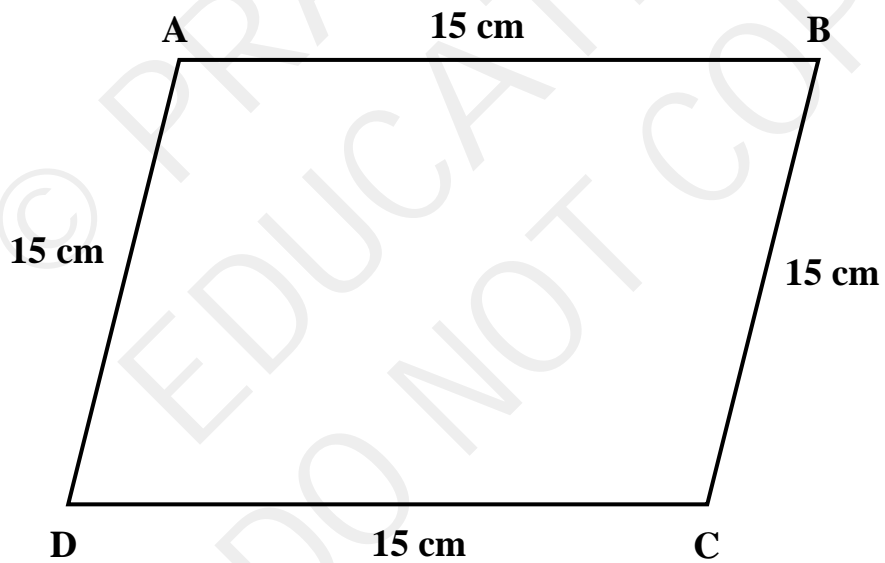
- (a) Take any point P on the bisector drawn. Examine whether $PX = PY$.
(b) If M is the mid point XY, what can you say about the lengths MX and MY?

Que.27. Find the perimeter of each of the following figure:

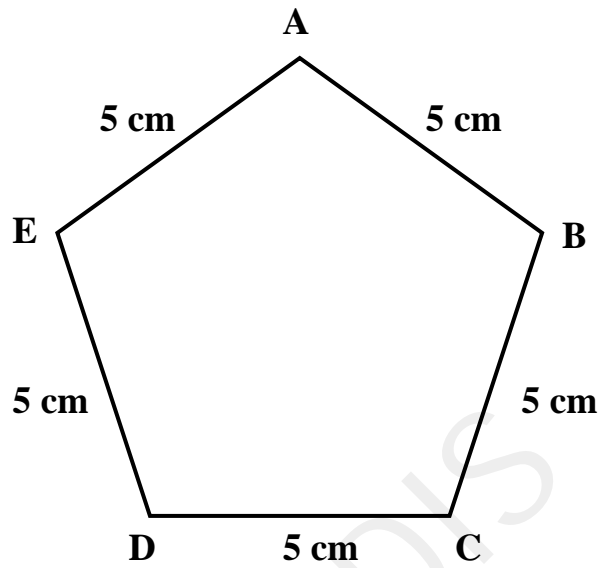
(a)



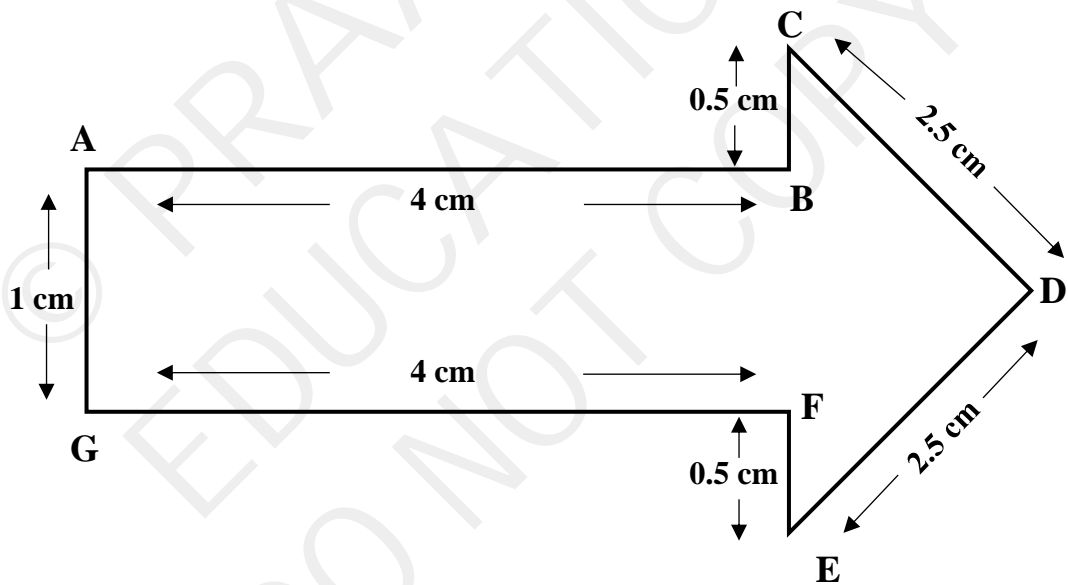
(b)



(c)



(d)



Que.28. Tell the angle between the hands of clock when it is-

- (a) 3 O'clock
- (b) 7 O'clock
- (c) 9 O'clock
- (d) 12 at the Midnight

Que.29. Take Sarita's present age to be y years

- (a) What will be her age 5 years from now?
- (b) What was her age 3 years back?
- (c) Sarita's grandfather is 6 times her age. What is the age of her grandfather?
- (d) Grandmother is 2 years younger than grandfather. What is grandmother's age?
- (e) Sarita's father's age is 5 years more than 3 times Sarita's age. What is her father's age?

Que.30. Draw a rough sketch of a quadrilateral HOPE. State:

- (a) A pair of opposite sides
- (b) A pair of opposite angles
- (c) A pair of adjacent sides
- (d) A pair of adjacent angles

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