

Priyash

Samastipur-848101

Class- Std VII
Subject- Mathematics

JSUNIL TUTORIAL

Time- 2.30 Hours
F.M.- 80

All questions are compulsory.

Group - A (Each question carry 1 marks)

1. Choose the correct answer in each of the following: (10)

(a) The reciprocal of $1\frac{2}{3}$ is:

(i) $3\frac{1}{2}$

(ii) $2\frac{1}{3}$

(iii) $1\frac{1}{3}$

(iv) $\frac{3}{5}$

(b) $2\frac{2}{25} = ?$

(i) 2.8

(ii) 2.08

(iii) 2.008

(iv) None of these

(c) Reciprocal of -6 is:

(i) 6

(ii) $\frac{1}{6}$

(iii) $-\frac{1}{6}$

(iv) None of these

(d) The supplement of 45° is:

(i) 45°

(ii) 75°

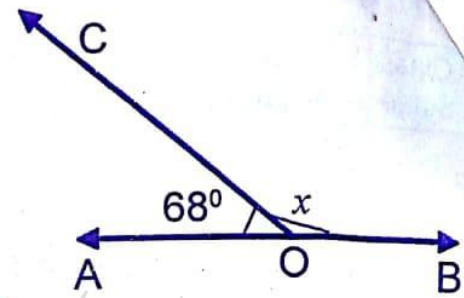
(iii) 135°

(iv) 155°

P.T.O.

- (e) In the figure, $\angle AOB$ is a straight line. $\angle AOC = 68^\circ$ and $\angle BOC = x^\circ$ the value of x is:

- (i) 32° (ii) 22°
(iii) 112° (iv) 132°



JSUNIL TUTORIAL

- (f) In $\triangle ABC$ it is given that $\angle B = 37^\circ$ and $\angle C = 29^\circ$. The $\angle A = ?$
(i) 86° (ii) 66°
(iii) 114° (iv) 57°
- (g) $(-27) \times (-16) + (-27) \times (-14) = ?$
(i) -810 (ii) 810
(iii) -54 (iv) 54
- (h) How much less than -2 is -8 ?
(i) 6 (ii) -6
(iii) 10 (iv) -10
- (i) 8% of a number is 6 , What is the number?
(i) 48 (ii) 96
(iii) 75 (iv) 60
- (j) If 16 men can reap a field in 30 days, in how many days will 20 men reap the same field?

Group - B

Each question carries 2 marks (10)

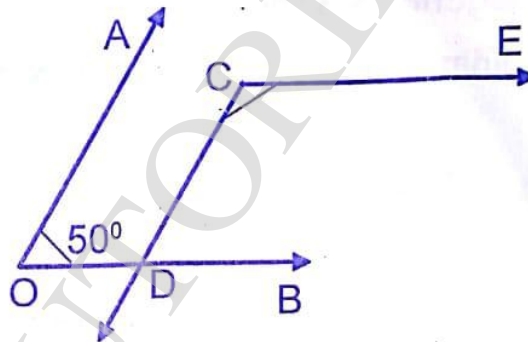
2. The sum of two integers is -12 , If one of them is 43 , find the

P.T.O.

other.

JSUNIL TUTORIAL

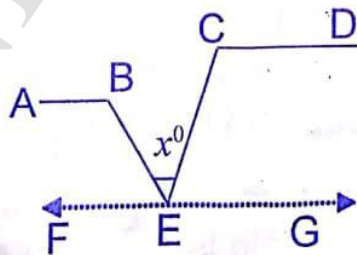
- By what number should $6\frac{2}{4}$ be divided to obtain $4\frac{2}{3} = ?$
- Divide 0.228 by 0.38
- How many pieces of length $3\frac{3}{4}$ m, can be cut from a rope of length 45m?
- In the given figure $AO \parallel CD$, $OB \parallel CE$ and $\angle AOB = 50^\circ$. Find the measure of $\angle ECD$.



Section - C

Each question carries 3 marks.

- In the figure $AB \parallel CD$, $\angle ABE = 120^\circ$, $\angle ECD = 100^\circ$ and $\angle BEC = x^\circ$. Find the value of x .



- Add $5x^2 - 7x + 3$, $-8x^2 + 2x - 5$ and $7x^2 - x - 2$
- Find the product:

(a) $(x^2 - xy + y^2)(x + y)$

(b) $\frac{7}{2}x^2(\frac{4}{7}x + 2)$

P.T.O.

10. Simplify:

(a) $\frac{3^5 \times 10^5 \times 25}{5^7 \times 6^5}$

(b) $\left(\frac{16}{15} \times \frac{-25}{8}\right) + \left(\frac{-14}{27} \times \frac{6}{7}\right)$

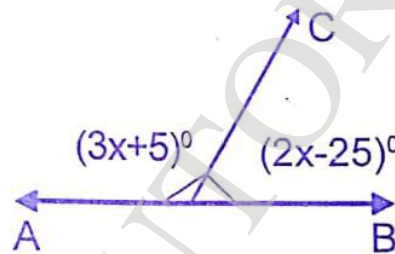
11. List six rational numbers between -2 and -1

12. (a) Each bag of cement weights 48.5kg. How many such bags will weight 2231 kg?

(b) Simplify: $63.7 - 28.89 + 76.4 - 37.66$

13. Find the area of a rectangular plot. One side of which measure 35m and the diagonal is 37m.

14. In the adjoining figure, what value of x will make AOB a straight line:



Group - D

Each question carries 4 marks.

(36)

15. (a) Subtract the sum of -1032 and 878 from -34

(b) Simplify $-26 \times 72 + (-26) \times 28$

(c) What should be subtracted from $17\frac{3}{4}$ to get $11\frac{2}{3}$?

(d) Each side of a square field is $4\frac{2}{3}$ m. Find its area.

16. (a) Find the value of $(1.5)^3$

(b) Divide 39.168 by 12

(c) Find the average of 4.2, 7.4 and 8.8

P.T.O.

TMS, Mid-Term Examination, September, 2018 Mathematics VII-P. 5

(d) Find the cost of $3\frac{1}{3}$ m of cloth at Rs. $121\frac{1}{2}$ per metre.

17. (a) Find x such that : $\left(\frac{3}{5}\right)^3 \times \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{2x-1}$

(b) Write the following in standard form:

(i) 538

(ii) 427500000

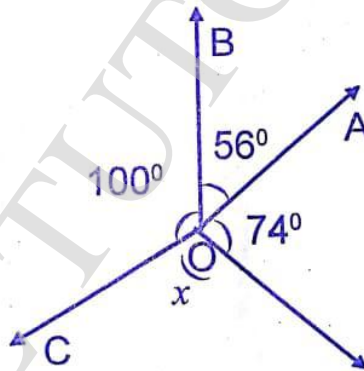
18. (a) Divide Rs. 840 between Amit and Tanvy in the ratio 5 : 7

(b) If 15 oranges cost Rs. 110, what do 39 oranges cost?

19. (a) In the figure given rays OA, OB, OC and OD are such that.

$\angle AOB = 56^\circ$, $\angle BOC = 100^\circ$, $\angle COD = x^\circ$ and $\angle DOA = 74^\circ$ Find the value of x .

(b) Define: (i) Supplementary angles (ii) Adjacent angles



20. The cost of fencing a square field at Rs. 16 per metre is Rs. 3200. Find the cost of reaping the field at Rs. 35 per 100 m².

21. Fill in the blanks:

(a) Area of rectangle = _____

(b) Area of square = _____

(c) 8^0 = _____

(d) $(3^0 + 4^0 + 5^0)$ = _____

(e) $1 \div \frac{1}{2}$ = _____

P.T.O.

(f) $(0.7)^2 =$ _____

(g) $\frac{84}{98}$ in standard form = _____

(h) $(-35) \times$ _____ $= 35$

22. (a) Solve and check your result: $5(2x - 3) - 3(3x - 7) = 5$

(b) Find three consecutive positive even numbers whose sum is 90.

23. (a) Simplify: $a(b - c) + b(c - a) + c(a - b)$

(b) Simplify: $(3x + 4)(2x - 3) + (5x - 4)(x + 2)$

JSUNIL TUTORIAL

