

HOLY MISSION HIGH SCHOOL

Ashriff: Ejaz

[Affiliated to C.B.S.E, Delhi, +2 Level]

SAMASTIPUR - 848101

Std.- VII

F.M. - 80

Subject:- Maths

JSUNIL TUTORIAL

Time : 2:30 hrs.

General Instruction:-

Attempt all the questions

Q. No. 1 and 2 are objective type questions of 1 mark each

Q. No. 3 to 9 carry 3 marks each

Q. No. 10 to 15 carry 4 marks each

Q. No. 16 and 20 carry 5 marks each

1. Choose the correct answer :-

5x1=5

(a) The product of a positive integer and (-1) is

- (i) -1 (ii) Positive (iii) Negative (iv) 1

(b) The value of $12 - [7 - \{16 - (18 - 6 + 3 - 12)\}]$ is

- (i) 2 (ii) 3 (iii) 0 (iv) *non of these*

(c) $3^3 + 3^3 + 3^3$ is equal to

- (i) 3^4 (ii) 3^{12} (iii) 3^{18} (iv) 3^{16}

(d) The product of $2\frac{5}{12} \times 6$ is

- (i) $12\frac{5}{12}$ (ii) $2\frac{5}{72}$ (iii) $14\frac{1}{2}$ (iv) $3\frac{5}{7}$

(e) $a^2 - 3ab$ is a

- (i) Monomial (ii) Binomial (iii) Trinomial (iv) None of these

2. Fill in the blanks :-

5x1=5

(a) If $8:X :: 24:42$ then $X =$ *18*

(b) 30% of 90 is *27*

(c) The scientific notation of 7,40,000 = *7.4 \times 10^5*

(d) If $20X + 37 = 97$, then $X =$ *3*

(e) $\frac{-6}{5} = \frac{30}{-25}$

3. Two supplementary angles are in the ratio 7:11, then find the angles. 3

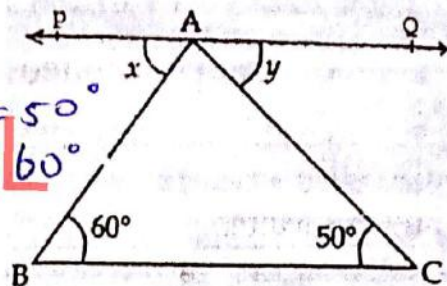
4. Divide Rs. 500 in the ratio 2:3:5 3

5. Simplify $4 - (6 \times 4 - 11 \times 2)$ 3

6. Find three rational numbers between $\frac{3}{4}$ and $\frac{1}{2}$ 3

PTO *15*
11

7. Find the third proportional to 8 and 12. 3
 8. Find the value of x and y when PQ || BC. 3



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9. The cost of 12 pens is Rs. $9\frac{3}{5}$. Find the cost of 1 pen 3

10. The selling price of 20 articles is equal to the cost price of 22 articles. Find the gain percent. 4

11. Solve for m,
$$\frac{m-3}{5} + 7 = \frac{2m+1}{3}$$

Handwritten solution for Q11:
 $30 = \frac{2m-3}{3} \times 15$
 $30 = \frac{2m-3}{1} \times 5$
 $6 = 2m-3$
 $9 = 2m$
 $m = \frac{9}{2}$

12. If P = Rs. 800, R = 12% p.a, T = 2years Find SI

13. Subtract $1+3p^2-2pq-3q^2$ from $2+p^2-3pq+q^2$

Handwritten solution for Q13:
 $(2+p^2-3pq+q^2) - (1+3p^2-2pq-3q^2)$
 $= 2+p^2-3pq+q^2-1-3p^2+2pq+3q^2$
 $= 1-2p^2-pq+4q^2$

14. The first, third and fourth term of a proportion are 6, 9 and 36. Find the second term. 4

15. If $\left(\frac{p}{q}\right) = \left(\frac{-5}{6}\right)^6 \div \left(\frac{-5}{6}\right)^5$, find the value of $\left(\frac{p}{q}\right)^2$ 4

16. Simplify :- $5\frac{1}{2} + \left[7\frac{1}{2} - \left\{ 4 + \left(5 - 6\frac{1}{2} - 4\frac{1}{2} \right) \right\} \right]$ 5

17. A car moves at a speed of $57\frac{3}{4}$ km/h. The car travels for 3 hours 20 minutes. Find the distance covered by the car. 5

18. Represent the following on the number line 5

(a) $\frac{-3}{2}$ (b) $3\frac{4}{5}$

19. Solve :- 5

(a) $4(2x-3) + 5(3x-4) = 14$

- (b) Find the complement of 15°

20. Rajni has Rs. 750 in a saving account that pays 3% simple interest. How much interest will she earn in 5

- (a) 4 years (b) 9 months

Handwritten notes:
 $3 \times 1 \times 2$
 15×5

Handwritten algebraic expansion:
 $+ 2 + p^2 - 3pa + a^2$
 $+ 1 - 3p^2 - 2pa + 3a^2$

 $D2 - pa + 4a^2$

Handwritten numbers:
 $15/5$
 $8/3$