

Date 05/10/19
HOLIDAY HOMEWORK FOR AUTUMN BREAK

CLASS - VI

SUB - MATHS

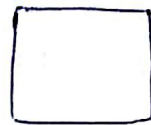
1. Arrange following in ascending order.

- a) 1473 b) 89423 c) 100 d) 5000 e) 310

2. Simplify By taking common.

$$126 \times 55 + 126 \times 45$$

3. Classify open/closed shapes.



4. Draw angles of following measurement.

- a) 53° b) 90° c) 25° d) 60°

5. Write following into fraction.

- a) 0.24 b) 2.34 c) 3.92 d) 6.23

6. Write into decimal.

- a) $\frac{23}{100}$ b) $\frac{62}{1000}$ c) $\frac{999}{1000}$

7. Abhishek had ₹ 7.45. He bought Toffees for ₹ 5.30. Find the balance amount left with him.

8. Add following.

- a) 234 and 6250

- b) 1007 and 60.50

HOLIDAY HOMEWORK FOR AUTUMN BREAKSUBJECT - MATHS

1. Prove any two theorems from the topic Triangles.

2. One rational number between $\frac{1}{2}$ and $\frac{3}{4}$ is

a) 1

b) $\frac{3}{2}$

c) $\frac{3}{5}$

3. Show $\sqrt{5}$ on number line.

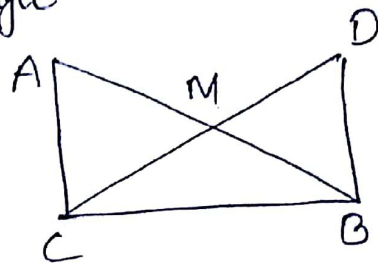
4. In Right angled triangle ABC, Right angled at C, M is the midpoint of Hypotenuse AB. C is joined to M and produce to a Point D. Such that $DM = CM$. Point D is joined to point B. show that -

i) $\angle DBC$ is a Right angle triangle

ii) $\triangle AMC \cong \triangle BMD$

iii) $\angle DBC$ is a Right angle

iv) $\triangle DBC \cong \triangle ACB$



5. Verify whether 2 and 0 are zeroes of the polynomial $x^2 - 2x$

6. Divide $x + 3x^2 - 1$ by $1 + x$

7. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, then value of 'a' will be -

a) $\frac{2}{3}$

b) $\frac{5}{3}$

c) $\frac{1}{7}$

d) $\frac{1}{3}$

6. Draw angles of following measurement and classify their types.

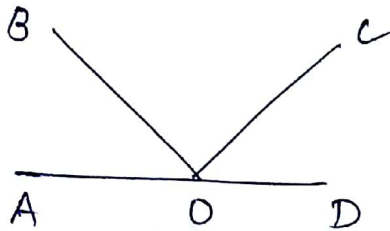
a) 90°

b) 36°

c) 93°

d) 120°

7.



In the above given figure following are adjacent angles ?

a) $\angle AOB$ and $\angle BOC$

b) $\angle BOD$ and $\angle BOC$

Justify your answer.

8. Write tables from 11 to 20 and learn them.

9. Subtract following

a) 9250 from 62955

b) 897 from 6309.5

c) 593.6 from 600

10. Solve following.

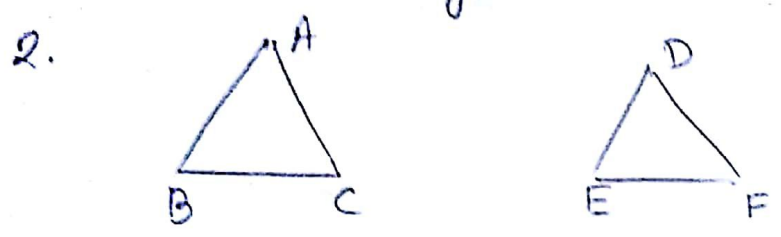
a) $2P + 1 = 11$

b) $\frac{P}{3} + 5 = 5$

c) $2m + 6 = 0$

d) $a + 9 = 10$

1. Write all conditions for congruency of any two triangles.



If $AC = DF$, $AB = DE$, $BC = EF$

Which congruency criterion do you use in the following (above triangles).

3. Write what fraction will represent following-



4. The enrolment in a school during six consecutive years was as follows.

1555, 1670, 1750, 2013, 2540, 2820

Find the mean enrolment of the school for this period.

5. Complete the last column.

S.No.	Equation	value	Equation satisfied yes/No
1.	$x + 3 = 0$	$x = 3$	
2.	$x + 3 = 0$	$x = -3$	
3.	$x - 7 = 1$	$x = 7$	
4.	$5x = 25$	$x = 5$	
5.	$m/3 = 2$	$m = 6$	

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MATHS MONTHLY TEST:5 (AUTUMN BREAK)

CLASS: X

SUBJECT: MATHS

SOLVE THE FOLLOWING QUESTIONS.

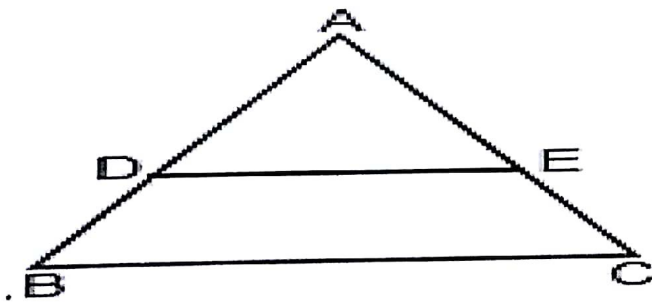
1. State and prove PGT,
2. Calculate the value of

a) $\sin 60 \cos 30 + \sin 30 \cos 60$

b) $\cos 0 \cos 30 \cos 45 \cos 60 \cos 90$

3. If the first three terms of an A.P. are b , c and $2b$. Then find the ratio of b and c .

4. In $\triangle ABC$ shown in figure, $DE \parallel BC$. If $BC = 8$ cm, $DE = 6$ cm and area of $\triangle ADE = 45$ cm², what is the area of $\triangle ABC$?



5. The mid-point of segment AB is the point P (0, 4). If the Coordinates of B are (-2, 3) then find the coordinates of A.

6.

Height(cm)	150-155	155-160	160-165	165-170	170-175	175-180
NO. Of students	15	13	10	8	9	5

The upper limit of the median class in the given data is

a)165

b)155

c)160

d)170

8. Write all postulates of Euclid.

9. Draw graph of $x + y = 7$

10. Find two solutions for each of following.

i) $4x + 3y = 12$

ii) $2x + 5y = 0$

iii) $3y + 4 = 0$

c) 125.6 and 3205.9

d) 5625 and 1039.4

9. Subtract following.

a) 90.26 and 106 .

b) 2560 from 3120

c) 999 from 999.52

d) 2098 from 6250

10. Solve following.

a) 625×55

b) 909×4.5

c) $9025 \div 15$

d) $6390 \div 13$

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MATHS MONTHLY TEST:4 (AUTUMN BREAK)

CLASS: X

SUBJECT: MATHS

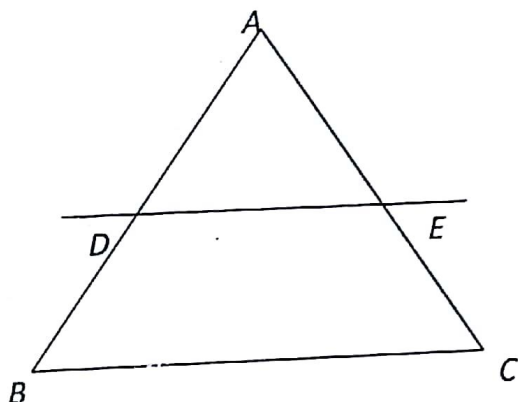
SOLVE THE FOLLOWING QUESTIONS.

1. Fill in the blanks.

- a) All circles are _____ . (Congruent , similar)
b) All _____ Triangles are similar . (Isosceles , Equilateral)
c) All _____ are similar (Square , Triangle)

2. Two triangles are similar
when _____

3.



DE intersect $\triangle ABC$ at point D and E . Prove that $AD/AB = AE/AC$

4. Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.

5. HCF of 168 and 126 is

- a) 21 b) 42 c) 14 d) 18

6. The sum of the zeroes of the polynomial $2x^2 - 8x + 6$ is

- a) -3 b) 3 c) -4 d) 4