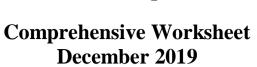
The City School PAF Chapter





Mathematics Class – 7

Index Number:								_ Sect	ion:		
Branch/Campus: _								Date	»:		
Maximum Marks:	100							Т	ime All	owed: 2	2 hour
INSTRUCTIONS:											
Write your name	e, index	numbe	r, sectio	n, branc	ch/camp	ous and	date cle	arly in	the spac	e provi	ded.
Read and follow	the inst	truction	s of the	given q	uestion	s.					
• Answer all the q	uestions	s in the	space p	rovided	•						
Select only one a	answer	when m	ade to c	choose,	otherwi	se no m	arks wi	ll be gi	ven.		
Check your answ	vers bef	ore han	ding yo	ur pape	r in.						
Marks for each s	ection a	are shov	vn belov	W•							
 This paper consider 	sts of 1 .	3 printe	d pages	includi	ng the c	over pa	ıge.				
Sections	S	Section	- A (60	Marks	s)		Section	-B (40) Marks	s)	Tota
Question	1	2	3	4	5	6	7	8	9	10	
M Ml	10	10	10	10	10	10	10	10	10	10	100
Max. Marks											
Marks Obtained											
		P	ercenta	ge							
		P	ercenta Grade								

a. The sum of the angles in a circle =

b. The next two terms of the sequence 2, 9, 16, 23 ______, _____.

c. y intercept of the line -3x + 5 is _____.

e. Simple form of 60 : 12 is .

Q1b. Identify whether the statement is true or false.

/05]

b.
$$(-2)^3 = 8$$

c. Equation of x-axis is
$$x=0$$

d. If a typist types 300 words in 30 minutes his rate of typing is 10 words per minute.

e. If a car travels at an average speed of 120km/h for 2 hours then the distance covered is 240 km.

Q2a. Identify which of the following are rational and which of them are irrational?

[/05]

Number	Rational	Irrational
8.123		
2π		
√9		
$\frac{22}{7}$		
3.142		

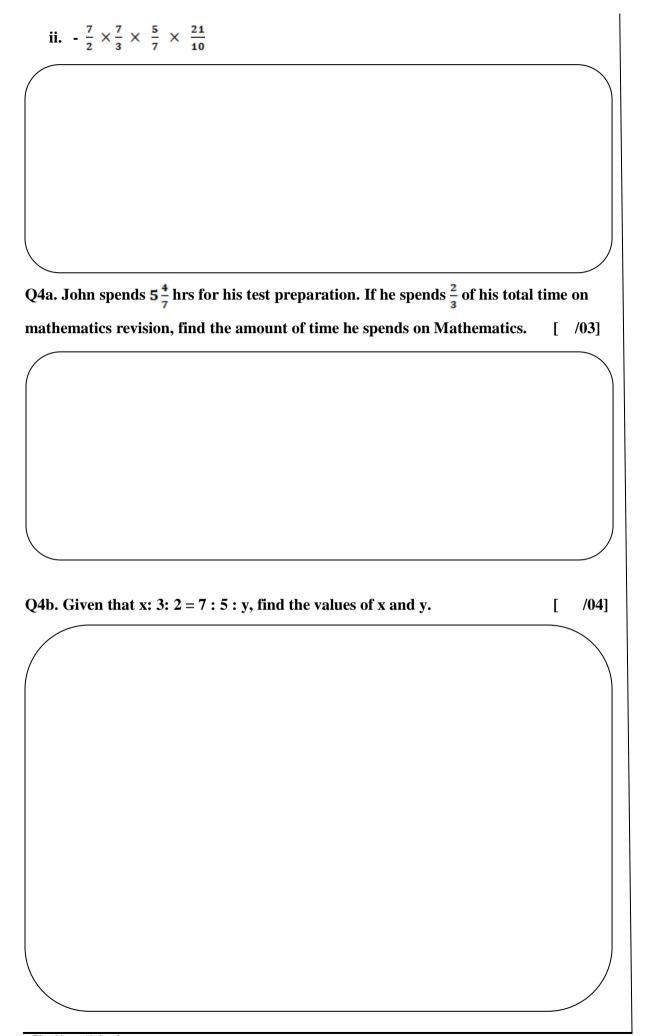
Q2b. find the gradient of each of the following.

[/02]

i.
$$y = 8 - 2x$$

ii.
$$3y = 4x + 12$$

Q3a. Find the smallest value of m, such that the LCM of m and 34 is 374. [/02] Q3b. The numbers 240 and 720 are written as the product of their prime factors. $240 = 2^4 \times 3 \times 5$ $720 = 2^4 \times 3^2 \times 5$	Q2c. Convert 8 ¹ / ₄ hours intominutes.	[/01]
Q3b. The numbers 240 and 720 are written as the product of their prime factors. $240 = 2^4 \times 3 \times 5$ $720 = 2^4 \times 3^2 \times 5$ Find the H.F.C. [/02]	Q2d. Find percentage change in an increase from 120 to 150.	[/02]
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	Find the H.F.C.	[/02]
	Q3c. Evaluate the following		/06]
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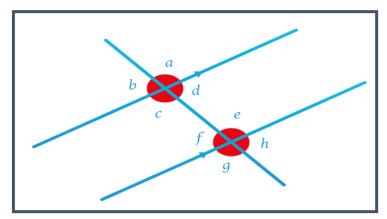
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SECTION B	
a. Micheal sells eggs at \$1.50 per half dozen, whereas Kate sells eggs of	the sar
	/04]
	·
b. A profit of \$42500 is divided among three persons x, y and z in the ra	
	,06]
3: 5. Find the share of each person.	(00)

Q6a. Covert the following:	[/02]
i. 250m/s to km/h	ii. 180km/min to m/s
ybb. II Jane drives at a speed of 65kn ours.	n/h. Calculate the distance she covered in 2 [/02]
	[]
	is 540 km. Train's average speed is 120km
Calculate the time taken in hours by t	the train. [/02]

km/n. what is his average speed for	the entire trip in km/h.	[/04
25% of a number is 2600. Find the	original number.	[/02
			mbo
he result of a number when increas	sed by 12.5% is 90. Find the	nu	шре
he result of a number when increas	sed by 12.5% is 90. Find the	nu [/02]
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revious year. What is the average this year?	is 50% higher than the [/02]
	,
7d. The value of a wooden table is decreased by 20% of	its value in the previou
ar. If the value of the table in 2019 is \$3020. Find its va	lue in 2017(Round off to
earest whole number).	[/04]

Q8a. Line m is parallel to line n



i. Write down one pair of alternate angles.

/01]

[

- ii. Is angle c + angle h = 180 degrees? Explain your answer.
- /01]

iii. If angle g is 117 degrees, calculate angle b.

- [/01]
- iv. If angle a is 48 degrees, what will be the value of angle c and angle e? [/01]
- Q8b. Consider the pattern.

$$\frac{1}{1\times 2} = \frac{1}{1} - \frac{1}{2}$$

$$\frac{1}{2\times3}=\frac{1}{2}-\frac{1}{3}$$

$$\frac{1}{3\times 4}=\frac{1}{3}-\frac{1}{4}$$

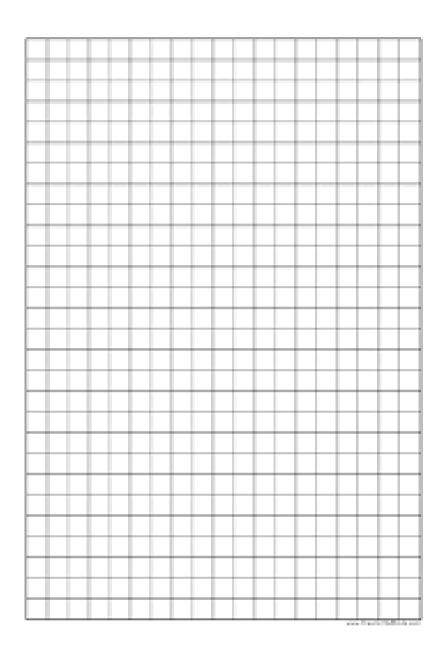
$$\frac{1}{4\times5}=\frac{1}{4}-\frac{1}{5}$$

$$\frac{1}{240} = \frac{1}{m} - \frac{1}{n}$$

a. Write the 15th row.

[/01]

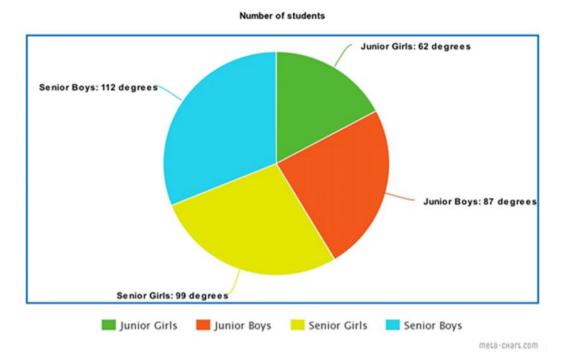
Using the pa	attern find	the value	e of $\frac{1}{12} - \frac{1}{1}$.3]	/02]
Find the val	lue of m an	d n.]	/03]
On a sheet of	graph pape	er , using	g a scale of	1 cm t	o repres	sent 1 uni	t on b
draw the gra	ph of the fu	unction	y = -x + 6	for va	lues of x		
			I]	/08]
X							
y = -x + 6							



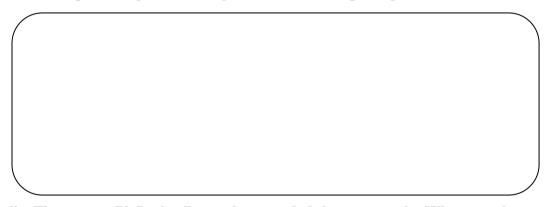
Q9b. From the graph find the value of:-	[/02]
i. $y \text{ when } x = -1$		

ii. x when y = 4

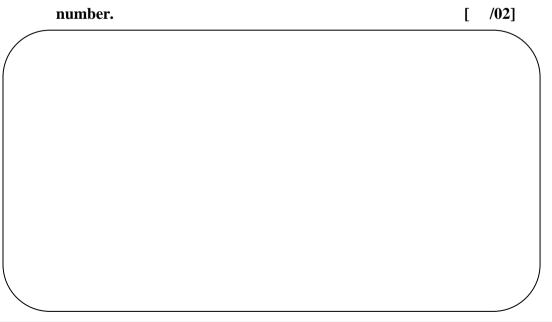
Q10a. The pie chart below shows the students participation from junior and senior section at the school's sports gala.



i. What percentage of Junior girls attended the sports gala? [/02]



ii. There were 70 Junior Boys who attended the sports gala. What was the total number of students who attended the event? Give your answer in whole number.



answer in whole number.	[/06]