

National Commerce Olympiad 2012

A True Test Of Your Genius National Commerce Olympiad Foundation

An NGO For Research & Development Of Commerce Studies

Math VIII:

1.					onut contains 10% wat m 20 kg of fresh coconut	
	(a)4kg	(b) 4.12kg	(c) 4.44Kg	(u) 454kg		
2.	Find the smallest number by which 2560 must be divided so that the quotient is a perfect cube.					
	(a) 20	(b) 15	(c) 2	(d) 5	CV	
3.	The height of a right circular cone is 36cm and the radius of its base is 15cm. Find the curved					
	surface area of					
	(a) 585π	(b) 390 π	(c) 810π	(d) 615π		
4.	Two sides of a parallelogram are 24cm and 32cm. If the altitude corresponding to the longer side					
	of the parallelogram is 21cm, then find the altitude corresponding to the shorter pair of parallel					
	sides.	ogram is ziem, men i	ind the artifude c	orresponding	to the shorter pair of pa	ar arre
	(a) 14	(b) 28	(c) 32	(d) 42		
5.	In the given figure 2 circles intersect at points P and Q. Quadrilaterals APQD and PBCQ are					
	inscribed in these circles such that APB and CQD are line segments. If $<$ B = 80° and $<$ D = 75°					
	find < a, < x, < y	y.	PB			
		20.4	77 82 86			
		1/	y / 15/			

6. In the given figure PQR is a triangle where M is a point on QR such that QM =3.5cm and QR =10cm. If MN// RP meets QP at N and QP = 8cm, find QN

(a) 105, 75, 105

(b) 75, 105, 75

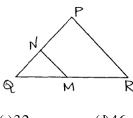
(c) 105, 75, 75 (d) 75, 75, 75



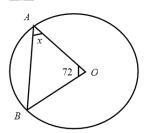
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- (a) 1.8
- (b) 2.8
- (c)3.2
- (d)4.6
- 7. A train 120m long crosses a pole in 10 seconds. The speed of train is
 - (a) 14km/hr
- (b) 60.3km/hr
- (c) 43.2km/hr
- (d) none of these
- 8. 'A' can do a job in 6 days and B can do the same job in 6days. If A and B work together in how many days the job will be finished?
 - (a) 2 days
- (b) 3 days
- (c) 6 days
- (d) 12 days
- 9. In the figure below what is the value of x? If 'O' the center of circle?
 - (a) 34
 - (b) 44
 - (c) 64
 - (d) 54



- 10. What is the area of an equilateral triangle whose altitude is 6?
 - (a) 18
- (b) $12\sqrt{3}$
- (c) $18\sqrt{3}$
- (d) $24\sqrt{3}$



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Answar key

1.(c) 2. (d) 3. (a) 4. (b) 5. (a)

6.(b) 7. (c) 8. (b) 9. (d) 10. (b)