



Department of Education - Western Province

Year End Evaluation Test - 2007

Mathematics - Grade 10

Time :- 1 Hours

All answers should be written in the given space

Name/Number :

Part I

01. Give 1.3m in centimetres

02. Simplify $(-6) + 3$

03. Find the value of $1.1 - 0.09$

04. Find the value of $(-3)^3$

05. Find the perimeter of a square of side 4.2 cm.

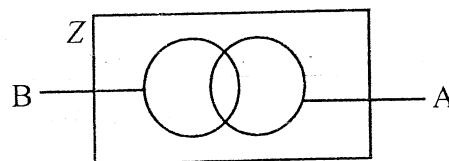
06. Complete the blank with a suitable number

$$2 : 3 = \boxed{} : 9$$

07. Give a prime number between 5 and 10.

8. Find the value of a in equation $a + 5 = 8$

9. Shade the area belongs to set A in the given diagram.



10. Simplify $\frac{3}{x} + \frac{2}{x}$

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(1 x 10 = 10 marks)

11. Arrange the following according to the ascending order

$$\frac{3}{5}, \frac{3}{12}, \frac{3}{8}$$

12. Find the value by using the knowledge of factors
 53×47

13. If $x = 2$ and $y = (-3)$ find the value of $3x - y$

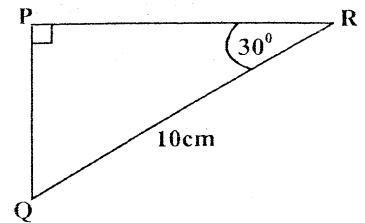
14. Find the value of 40% of Rs. 750

15. (i) Give 225 as a product of prime factors

(ii) Find $\sqrt{225}$ by using the above

16. Find the least common factor of $2x, 3x^2, 2(x - 2)$

17. If $\cos 60^\circ = \frac{1}{2}$ calculate length of PQ



18. Calculate the value of $1011_{\text{two}} + 101_{\text{two}}$ and give the answer as a decimal number.

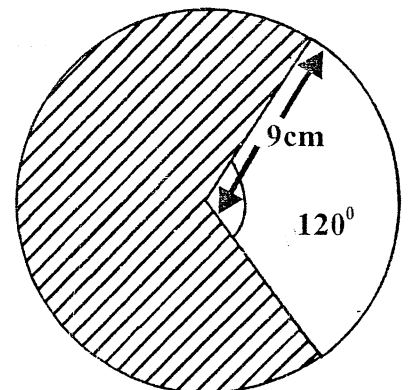
19. Consider $2y = x - 5$
- (i) Find the gradient of the given straight line.
- (ii) Write the intercept of the straight line.

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20. The distance between two cities is 5cm of a map drawn to the scale 1 : 50 000. Give the real distance in kilometers

(2 x 10 = 20 marks)

21. Find the perimeter of the shaded sector



22. If $\log 3 = 0.48$ and $\log 2 = 0.30$

Find the value of $\log \left(\frac{9}{2} \right)$

23. (i) Make the subject as l in the equation

$$S = \frac{n}{2} (a + l)$$

- (ii) If $S = 90$, $n = 20$ and $l = 8$
find the value of a .

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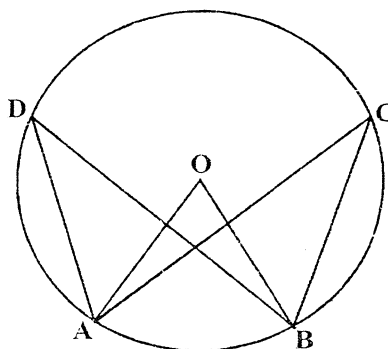
24. There is a bag with 7 balls marked even numbers between 1 and 15 on them. If a ball is taken out randomly.
(i) Write the sample space (S) which all the elements can be obtained.

- (ii) Find the number of subsets, of the set S .

- (iii) Find the probability of getting a triangular number written ball randomly.

25. A, B, C, D points lie on the circle of centre O

- (i) Name an angle equal to $\angle CBD$



- (ii) If $\angle AOB = 102^\circ$
find the value of $\angle ADB$

- (iii) Write a theorem you used to obtain the above answer.