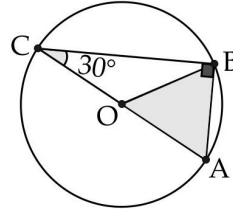
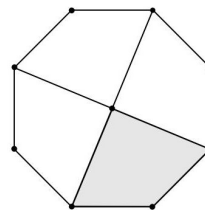


71. If a 4 digit number formed by 7, 3, 2,  $x$  is exactly divisible by 9, then what is the value of  $x$  ?  
 (1) 0 (2) 2 (3) 4 (4) 6
72.  $(56)^2 - (41)^2$  is exactly divisible by the number :  
 (1) 2 (2) 3  
 (3) 4 (4) 7
73. If  $x - y = 5$  and  $xy = 6$ , then which of the following is the value of  $x + y$  ?  
 (1) 6 (2) 8  
 (3) 7 (4) 5
74. If milk and water ratio in 16 litre mixture is 5 : 3, then the amount of milk to be added to make this ratio 2 : 1 is :  
 (1) 1 litre (2) 2 litre (3) 3 litre (4) 4 litre
75. If the hypotenuse of a right triangle is 20 cm, then what is the maximum area of the triangle ?  
 (1) 100 sq.cm (3) 90 sq.cm  
 (2) 120 sq.cm (4) 80 sq.cm
76. What is the value of  $0.3 \times 0.02 \times 0.004$  ?  
 (1) 0.024 (2) 0.000024  
 (3) 0.0024 (4) 0.0000024
77. If  $(684)^2 = 467854$ , then what is the value of  $\sqrt{46.7854}$  ?  
 (1) 0.684 (2) 6.84 (3) 0.0684 (4) 0.00684
78. The remainder when  $9^{15} + 6$  is divided by 8 is :  
 (1) 7 (2) 3 (3) 5 (4) 4
79. Which of following is the smallest fraction ?  
 (1)  $\frac{12}{14}$  (2)  $\frac{13}{19}$  (3)  $\frac{17}{21}$  (4)  $\frac{7}{8}$

80. The figure shows a circle of radius one unit with centre O and  $\angle ACB = 30^\circ$ . Find AB.

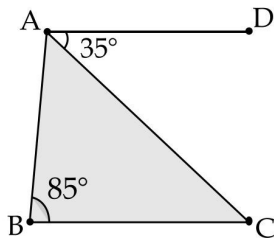


- (1)  $\frac{1}{2}$  unit (2) 1 unit  
 (3)  $\frac{3}{2}$  unit (4) 2 unit
81. Find the angle formed between the hour hand and minute hand of a clock at 2 o'clock.  
 (1)  $70^\circ$  (2)  $50^\circ$   
 (3)  $60^\circ$  (4)  $55^\circ$
82. The figure shows a regular octagon with area 8 sq. unit. What is the area of the shaded region ?



- (1) 3 sq. unit  
 (2) 1 sq. unit  
 (3) 1.5 sq. unit  
 (4) 2 sq. unit

83. In the figure  $AD \parallel BC$ , then find  $\angle BAC$ .



- (1)  $50^\circ$                       (2)  $60^\circ$   
 (3)  $70^\circ$                       (4)  $80^\circ$
84. If  $x + \frac{1}{x} = 3$ , then what is the value of

$$x^2 + \frac{1}{x^2} ?$$

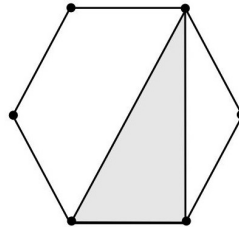
- (1) 1                              (2) 11  
 (3) 7                                (4) 9
85. If 15 men can reap a field in 28 days, in how many days will 5 men reap it ?
- (1) 84 days                      (2) 64 days  
 (3) 80 days                      (4) 72 days
86. If two numbers are respectively 20% and 50% more than a third, what percentage of the second number is the first number ?

- (1) 70%                          (2) 80%  
 (3) 90%                          (4) 60%

87. In 30 years using simple interest an amount becomes 4 times the original amount. What is the rate of interest ?

- (1) 10%                          (2) 11%  
 (3) 12%                          (4) 13%

88. The figure shows a regular hexagon with side 1 unit. What is the length of the longest side of the shaded triangle ?



- (1) 2 units                      (2) 3 units  
 (3)  $\frac{2}{3}$  units                      (4)  $\frac{4}{3}$  units
89. What is the average of first 65 natural numbers ?
- (1) 33                              (2) 32  
 (3) 66                              (4) 64
90. Rohan was 4 times as old as his son 6 years ago. After 6 years Rohan will be twice as old as his son. What is the son's present age ?

- (1) 10 years                      (2) 12 years  
 (3) 13 years                      (4) 18 years