

MM:20

(4)

CLASS X GUESS PAPER MATHS

TIME:1.20 HR.

Q. 1: If tangents PA and PB from a point P to a circle with centre O are inclined to each other an angle of 80°, then \angle POA is equal to (1)

(A) 50° (B) 60° (C) 70° (D) 80°

Q. 2: Complete the following statements:

(i) Probability of an event E + Probability of the event 'not E' = 2

(ii) The probability of an event that cannot happen is _____. Such as event is called _____.

(iii) The probability of an event that is certain to happen is ______. Such as event is called ______.

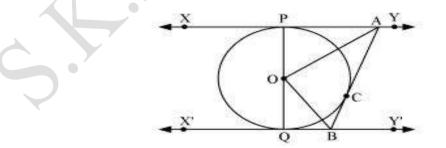
(iv) The sum of the probabilities of all the elementary events of an experiment is ______.

(v) The probability of an event is greater than or equal to _____ and less than or equal to _____.

Q. 3:From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. The radius of the circle is (1)

(A) 7 cm (B) 12 cm (C) 15 cm (D) 24.5 cm

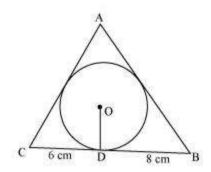
Q.4 : In the given figure, XY and X'Y' are two parallel tangents to a circle with centre O and another tangent AB with point of contact C intersecting XY at A and X'Y' at B. Prove that $\angle AOB=90^{\circ}$. (2)



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Q. 5:A triangle ABC is drawn to circumscribe a circle of radius 4 cm such that the segments BD and DC into which BC is divided by the point of contact D are of lengths 8 cm and 6 cm respectively (see given figure). Find the sides AB and AC.
(4)



Q. 6: A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. Find the number of blue balls in the jar. (2)

Q. 7: Two dice, one blue and one grey, are thrown at the same time.

(3)

(i) Write down all the possible outcomes and complete the following table:

Event: Sum of two dice	2	3	4	5	6	7	8	9	10	11	12
Probability	$\frac{1}{36}$						$\frac{5}{36}$				$\frac{1}{36}$

(ii) A student argues that 'there are 11 possible outcomes 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. Therefore, each of them has a probability $\frac{1}{11}$. Do you agree with this argument?

Q. 8: 12 defective pens are accidentally mixed with 132 good ones. It is not possible to just look at a pen and tell whether or not it is defective. One pen is taken out at random from this lot. Determine the probability that the pen taken out is a good one. (1.5)

Q. 9: A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears (1.5)

(i) a two-digit number

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(ii) a perfect square number

(iii) a number divisible by 5.

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