	CBSE Clas	s 10 Maths Ques	tion Paper Solut	tion 2020 Set 30/2	2/1
		QUESTION PAPE	ER CODE 30/2/1		
	EX	PECTED ANSWE	R/VALUE POIN	ГS	
		SECTIO	$\mathbf{N} - \mathbf{A}$		
	Question numbers 1	l to 10 are multiple	choice questions	of 1 mark each.	
	You have to select th	e correct choice :			
Q.No.					Marks
1.	The sum of exponents	s of prime factors in	the prime-factoris	ation of 196 is	
	(a) 3	(b) 4	(c) 5	(d) 2	
	Ans: (b) 4				1
2.	Euclid's division Lem there exists unique int	ma states that for tw teger q and r satisfy	we positive integer ing $a = bq + r$, and	s a and b,	
	(a) $0 < r < b$	(b) $0 < r \le b$	(c) $0 \le r < b$	$(\mathbf{d}) \ 0 \le \mathbf{r} \le \mathbf{b}$	
	Ans: (c) $0 \le r < b$				1
3.	The zeroes of the poly	ynomial $x^2 - 3x - m$	(m+3) are		
	(a) m, m + 3 (l)	b) $-m, m + 3$ (c) m, $-(m+3)$	$(\mathbf{d}) - \mathbf{m}, -(\mathbf{m} + 3)$	
	Ans: (b) -m, m + 3				1
4.	The value of k for whom $5x + ky + 7 = 0$ is inc	nich the system of lin	near equations x +	2y = 3,	
	14	2			
	(a) $-\frac{14}{3}$	(b) $\frac{2}{5}$	(c) 5	(d) 10	
	Ans: (d) 10				1
5.	The roots of the quad	ratic equation $x^2 - 0$	0.04 = 0 are		
	(a) ± 0.2 Ans: (a) ± 0.2	(b) ± 0.02	(c) 0.4	(d) 2	1
6.	The common differen	ce of the A.P. $\frac{1}{p}$, $\frac{1}{p}$	$\frac{-p}{p}, \frac{1-2p}{p}, \dots$ is		
		1		1	
	(a) 1	(b) $\frac{1}{p}$	(c) −1	(d) $-\frac{1}{p}$	
	Ans: (c) -1	r		Γ	1
7.	The n th term of the A.	P. a, 3a, 5a, is			
	(a) na	(b) (2n – 1)a	(c) (2n + 1) a	(d) 2na	
	Ans: (b) (2n – 1)a				1
8.	The point P on x-axis	equidistant from th	e points $A(-1, 0)$ a	nd B(5, 0) is	
	(a) (2, 0) Ans: (a) (2, 0)	(b) (0, 2)	(c) (3, 0)	(d) (2, 2)	1
9.	The co-ordinates of the	he point which is re-	flection of point (-	3, 5) in x-axis	
	are				
	(a) $(3, 5)$ Ans: (c) $(-3, -5)$	(b) (3, −5)	(c) (-3, -5)	(d) (-3, 5)	1



	Q. Nos. 16 to 20 are short answer type questions of 1 mark each.	
16.	If $\sin A + \sin^2 A = 1$, then find the value of the expression ($\cos^2 A + \cos^4 A$).	
	Ans: $\sin A = 1 - \sin^2 A$ $\sin A = \cos^2 A$	1/2
	$\cos^2 A + \cos^4 A = \sin A + \sin^2 A = 1$	1/2
17.	In Fig. 4 is a sector of circle of radius 10.5 cm. Find the perimeter of	
	the sector. $\left(\text{Take } \pi = \frac{22}{7} \right)$	
	$A \xrightarrow{60^{\circ}} B$ O Fig. 4	
	Ans: Perimeter = $2r + \frac{\pi r \theta}{180^{\circ}}$	
	$= 2 \times 10.5 + \frac{22}{7} \times 10.5 \times \frac{60^{\circ}}{1000}$	1/2
	= 21 + 11 = 32 cm	1/2
18.	If a number x is chosen at random from the numbers -3 , -2 , -1 , 0 , 1 , 2 , 3 , then find the probability of $x^2 < 4$.	
	Ans: Number of Favourable outcomes = 3 i.e., $\{-1, 0, 1\}$ \therefore P(x ² < 4) = $\frac{3}{7}$	1/2+1/2
	OR	
	What is the probability that a randomly taken leap year has 52 Sundays?	
	Ans: P(52 sundays) = $\frac{3}{7}$	1
19.	Find the class-marks of the classes 10-25 and 35-55.	
	Ans: Class Marks $\frac{10+25}{2} = 17.5; \frac{35+55}{2} = 45$	1/2+1/2
20.	A die is thrown once. What is the probability of getting a prime number. Ans: Number of prime numbers = 3 i.e. ; $\{2, 3, 5\}$	1/2
	$P(Prime Number) = \frac{3}{6} \text{ or } \frac{1}{2}$	1/2



23.	Prove that $1 + \frac{\cot^2 \alpha}{1 + \csc \alpha} = \csc \alpha$	
	Ans: L.H.S = $1 + \frac{\cos ec^2 \alpha - 1}{1 + \cos ec \alpha}$	1/2
	$= 1 + \frac{(\cos ec \alpha - 1)(\cos ec \alpha + 1)}{\cos ec \alpha + 1}$	1
	$=$ cosec $\alpha =$ R.H.S	1/2
	\mathbf{OR}	
	Show that $\tan^2\theta + \tan^2\theta = \sec^2\theta - \sec^2\theta$	
	Ans: L.H.S = $\tan^4\theta + \tan^2\theta$	
	$=\tan^2\theta (\tan^2\theta + 1)$	1/2
	$= (\sec^2\theta - 1) (\sec^2\theta) = \sec^4\theta - \sec^2\theta = R.H.S$	1+1/2
24.	The volume of a right circular cylinder with its height equal to the radius	
	is $25\frac{1}{7}$ cm ³ . Find the height of the cylinder. $\left(\text{Use }\pi = \frac{22}{7}\right)$	
	Ans: Let height and radius of cylinder $= x \text{ cm}$	1/2
	$V = \frac{176}{7} \text{ cm}^3$	
	$\frac{22}{7} \times \mathbf{x}^2 \times \mathbf{x} = \frac{176}{7}$	1/2
	$x^3 = 8 \implies x = 2$	1/2
	\therefore height of cylinder = 2 cm	1/2
25.	A child has a die whose six faces show the letters as shown below :	
	The die is thrown once. What is the probability of getting (1) A, (1) D?	
	Ans: (i) $P(A) = \frac{2}{6} \text{ or } \frac{1}{3}$ (ii) $P(D) = \frac{1}{6}$	1+1
26.	Compute the mode for the following frequency distribution :	
	Size of items (in cm) $0-4$ $4-8$ $8-12$ $12-16$ $16-20$ $20-24$ $24-28$	
	Frequency 5 7 9 17 12 10 6	
	Ans: $l = 12$ $f_0 = 9$ $f_1 = 17$ $f_2 = 12$ $h = 4$	1/2
	Mode = $12 + \frac{17 - 9}{34 - 9 - 12} \times 4 = 14.46$ cm (Approx)	$1 + \frac{1}{2}$

	SECTION – C	
	Question numbers 27 to 34 carry 3 marks each.	
27.	If $2x + y = 23$ and $4x - y = 19$, find the value of $(5y - 2x)$ and $\left(\frac{y}{x} - 2\right)$	
	Ans: $2x + y = 23$, $4x - y = 19$	
	Solving, we get $x = 7$, $y = 9$	1+1
	$5y - 2x = 31, \frac{y}{x} - 2 = \frac{-5}{7}$	1/2+1/2
	OR	
	Solve for x : $\frac{1}{x+4} - \frac{1}{x+7} = \frac{11}{30}$, x # -4, 7	
	Ans: $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30} \implies \frac{-11}{(x+4)(x-7)} = \frac{11}{30}$	1
	$\Rightarrow x^2 - 3x + 2 = 0$	1
	$\Rightarrow (x-2) (x-1) = 0$	1/2
	\Rightarrow x = 2, 1	1/2
	The Following solution should also be accepted	
	$\frac{1}{x+4} - \frac{1}{x+7} = \frac{11}{30} \implies \frac{x+7-x-4}{(x+4)(x-7)} = \frac{11}{30}$	1
	$\Rightarrow 11 x^2 + 121x + 218 = 0$	$1\frac{1}{2}$
	Here, $D = 5049$	
	$x = \frac{-121 \pm \sqrt{5049}}{22}$	1/2
28.	Show that the sum of all terms of an A.P. whose first term is a, the	
	second term is b and the last term is c is equal to $\frac{(a+c)(b+c-2a)}{2(b-a)}$	
	Ans: Here $d = b - a$	1/2
	Let c be the n th term	
	$\therefore c = a + (n-1) (b-a)$	1/2
	$\Rightarrow n = \frac{c+b-2a}{b-a}$	1
	$\Rightarrow S_n = \frac{c+b-2a}{2(b-a)}(a+c)$	1

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	OR	
	Solve the equation : $1 + 4 + 7 + 10 + + x = 287$.	
	Ans: Let sum of n terms = 287	
	$\frac{n}{2} [2 \times 1 + (n-1)3] = 287$	1/2
	$3n^2 - n - 574 = 0$	1/2
	(3n+41)(n-14) = 0	1/2
	$n = 14 \left(\text{Reject } n = \frac{-41}{3} \right)$	1/2
	$x = a_{14} = 1 + 13 \times 3 = 40$	1
29.	In a flight of 600 km, an aircraft was slowed down due to bad weather. The average speed of the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. Find the duration of flight.	
	Ans: Let actual speed = $x \text{ km/hr}$ A.T.Q	
	$\frac{600}{x-200} - \frac{600}{x} = \frac{1}{2}$	1
	$x^2 - 200x - 240000 = 0$	
	(x - 600) (x + 400) = 0	1
	x = 600 (x = -400 Rejected)	1/2
	Duration of flight = $\frac{600}{600}$ = 1 hr	1/2
30.	If the mid-point of the line segment joining the points A(3, 4) and B(k, 6) is P (x, y) and $x + y - 10 = 0$, find the value of k.	
	Ans: $A \xrightarrow{I} \xrightarrow{P} \xrightarrow{I} \xrightarrow{B} B$	
	$x = \frac{3+k}{2} y = 5$	1/2+1/2
	$x + y - 10 = 0 \implies \frac{3+k}{2} + 5 - 10 = 0$	1
	\Rightarrow k = 7	1
	Find the area of triangle ABC with A $(1 - 4)$ and the mid-points	
	of sides through A being $(2, -1)$ and $(0, -1)$.	
	Ans: B(3, 2), C(-1, 2) $(2, -1) \neq (0, -1)$	1/2+1/2
	Area = $\frac{1}{2} 1(2-2)+3(2+4)-1(-4-2) =12$ sq.units	1+1



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34.	The area of a circular play ground is 22176 cm ² . Find the cost of fencing this ground at the rate of $₹$ 50 per metre.	
	Ans: Let the radius of playground be r cm	
	$\pi r^2 = 22176 \text{ cm}^2$	1
	r = 84 cm	
	Circumference = $2\pi r = 2 \times \frac{22}{7} \times 84 = 528$ cm	1
	Cost of fencing = $\frac{50}{100} \times 528 = ₹ 264$	1
	SECTION – D	
	Question numbers 35 to 40 carry 4 marks each.	
35.	Prove that $\sqrt{5}$ is an irrational number.	
	Ans: Let $\sqrt{5}$ be a rational number.	
	$\sqrt{5} = \frac{p}{q}$, p & q are coprimes & q \neq 0	1
	$5q^2 = p^2 \implies 5$ divides $p^2 \implies 5$ divides p also Let $p = 5a$, for some integer a	1
	$5q^2 = 25a^2 \implies q^2 = 5a^2 \implies 5$ divides $q^2 \implies 5$ divides q also	
	\therefore 5 is a common factor of p, q, which is not possible as p, q are coprimes.	1
	Hence assumption is wrong $\sqrt{5}$ is irrational no.	1
36.	It can take 12 hours to fill a swimming pool using two pipes. If the pipe of larger diameter is used for four hours and the pipe of smaller diameter for 9 hours, only half of the pool can be filled. How long would it take for each pipe to fill the pool separately ? Ans: Let time taken by pipe of larger diameter to fill the tank be x hr Let time taken by pipe of smaller diameter to fill the tank be y hr A.T.Q	
	$\frac{1}{x} + \frac{1}{y} = \frac{1}{12}, \frac{4}{x} + \frac{9}{y} = \frac{1}{2}$	1+1
	Solving we get $x = 20$ hr $y = 30$ hr	1+1
37.	Draw a circle of radius 2 cm with centre O and take a point P outside the circle such that $OP = 6.5$ cm. From P, draw two tangents to the circle. Ans: Correct construction of circle of radius 2 cm	1
	Correct construction of tangents.	3
	OR	
	Construct a triangle with sides 5 cm, 6 cm and 7 cm and then construct another $\frac{2}{3}$	
	triangle whose sides are $\frac{5}{4}$ times the corresponding sides of the first triangle.	
	Ans: Correct construction of given triangle	1
	Construction of Similar triangle	3
		I



$\frac{11-13}{13} 3 \qquad 12 \qquad 36$ $13-15 \qquad 6 \qquad 14 \qquad 84$ $15-17 \qquad 9 \qquad 16 \qquad 144$ $17-19 \qquad 13 \qquad 18 \qquad 234$ $19-21 \qquad f \qquad 20 \qquad 20f$ $21-23 \qquad 5 \qquad 22 \qquad 110$ $23-25 \qquad \frac{4}{40+f} \qquad 24 \qquad 96$ $\frac{704+20f}{40+f} \Rightarrow f=8$ OR The following table gives production yield per hectare of wheat of 100 farms of a village : $\frac{Production yield \qquad 40-45 45-50 50-55 55-60 60-65 65-70}{No. of farms \qquad 4 \qquad 6 \qquad 16 \qquad 20 \qquad 30 \qquad 24}$ Change the distribution to a 'more than' type distribution and draw its ogive. $Ans:$ $Production yield \qquad Vintum for the following table for the f$	Ans:	C.I	f	X		xf		
$\frac{13-15}{15} = 6 = 14 = 84$ $\frac{15-17}{9} = 16 = 144$ $\frac{17-19}{19-21} = f = 20 = 20f$ $\frac{21-23}{2} = 5 = 22 = 110$ $\frac{23-25}{4} = \frac{4}{40+f} = \frac{24}{96} = \frac{96}{704+20f}$ Mean = $\frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704+20f}{40+f} \Rightarrow f=8$ $\frac{0R}{16}$ The following table gives production yield per hectare of wheat of 100 farms of a village : $\frac{17}{100} = \frac{14}{10} = \frac{16}{10} = \frac{16}{20} = \frac{100}{30} = \frac{24}{24}$ Change the distribution to a 'more than' type distribution and draw its ogive. Ans: $\frac{17}{100} = \frac{100}{100} = 100$		11-13	3	12		36		
$\frac{15-17}{17} 9 \qquad 16 \qquad 144$ $\frac{17-19}{17-19} \qquad 13 \qquad 18 \qquad 234$ $\frac{19-21}{19-21} \qquad f \qquad 20 \qquad 206$ $\frac{21-23}{23-25} \qquad \frac{4}{40+f} \qquad 24 \qquad 96$ $\frac{40+f}{704+20f} \Rightarrow f=8$ $Mean = \frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704+20f}{40+f} \Rightarrow f=8$ CR The following table gives production yield per hectare of wheat of 100 farms of a village : $\frac{Production \ yield \qquad 40-45 45-50 50-55 55-60 60-65 65-70}{N0. \ of farms \qquad 4 \qquad 6 \qquad 16 \qquad 20 \qquad 30 \qquad 24}$ Change the distribution to a 'more than' type distribution and draw its ogive. $Ans:$ $Production \ yield \qquad 100 \\More \ than \ or \ equal \ to \ 45 \qquad 96 \\More \ than \ or \ equal \ to \ 50 \qquad 90 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ to \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 55 \qquad 74 \\More \ than \ or \ equal \ 75 \qquad 74 \\More \ than \ or \ equal \ 75 \qquad 74 \\More \ than \ or \ equal \ 75 \qquad 74 \More \ 55 \ 74 \More \ 55 \$		13-15	6	14		84		
$\frac{17\cdot19}{19\cdot21} f \qquad 20 \qquad 20f$ $\frac{21\cdot23}{21\cdot23} 5 \qquad 22 \qquad 110$ $\frac{23\cdot25}{4} \frac{4}{40+f} \qquad 24 \qquad 96$ $\frac{10}{704+20f}$ Mean = $\frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704+20f}{40+f} \Rightarrow f=8$ OR The following table gives production yield per hectare of wheat of 100 farms of a village : $\frac{Production \ yield \qquad 40\cdot45 \qquad 45\cdot50 \qquad 50\cdot55 \qquad 55\cdot60 \qquad 60\cdot65 \qquad 65\cdot70}{No. \ of farms \qquad 4 \qquad 6 \qquad 16 \qquad 20 \qquad 30 \qquad 24}$ Change the distribution to a 'more than' type distribution and draw its ogive. Ans: $\frac{Production \ yield \qquad Number \ of farms}{More \ than \ or \ equal \ to \ 45 \qquad 96}{More \ than \ or \ equal \ to \ 55 \qquad 74}{More \ than \ or \ equal \ to \ 55 \qquad 74}{More \ than \ or \ equal \ to \ 55 \qquad 74}$ Plotting of points (40, 100) (45, 96) (50, 90) (55, 74) (60, 54) (65, 24) join to get ogive.		15-17	9	16		144		
$19-21 \qquad f \qquad 20 \qquad 20f$ $21-23 \qquad 5 \qquad 22 \qquad 110$ $23-25 \qquad \frac{4}{40+f} \qquad 24 \qquad 96$ $\frac{10}{704+20f}$ Mean = $\frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704+20f}{40+f} \Rightarrow f=8$ OR The following table gives production yield per hectare of wheat of 100 farms of a village : $\frac{Production \ yield \qquad 40-45 45-50 50-55 55-60 60-65 65-70}{No. \ of farms \qquad 4 6 16 20 30 24}$ Change the distribution to a 'more than' type distribution and draw its ogive. Ans: $Production \ yield \qquad Value \ Va$		17-19	13	18		234		
$21-23 5 22 110$ $23-25 \frac{4}{40+f} \qquad 24 96$ $704+20f$ $Mean = \frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704+20f}{40+f} \Rightarrow f=8$ OR The following table gives production yield per hectare of wheat of 100 farms of a village : $Production \ yield 40-45 45-50 50-55 55-60 60-65 65-70$ No. of farms $4 6 16 20 30 24$ Change the distribution to a 'more than' type distribution and draw its ogive. Ans: $\frac{Production \ yield Vumber \ of \ farms}{More \ than \ or \ equal \ to \ 50 90}$ More than or equal to 50 90 More than or equal to 55 74 More than or equal to 55 74 More than or equal to 65 24 Plotting of points (40, 100) (45, 96) (50, 90) (55, 74) (60, 54) (65, 24) join to get ogive.		19-21	f	20		20f		
$23-25 \underline{4} \qquad 24 \qquad \underline{96} \\ \hline \underline{704 + 20f} \\ Mean = \frac{\sum xf}{\sum f} \Rightarrow 18 = \frac{704 + 20f}{40 + f} \Rightarrow f = 8 \\ \hline OR \\ The following table gives production yield per hectare of wheat of 100 farms of a village : Production yield 40-45 45-50 50-55 55-60 60-65 65-70 No. of farms 4 6 16 20 30 24 \\ \hline Change the distribution to a 'more than' type distribution and draw its ogive. Ans: \overline{Production yield} Number of farms More than or equal to 40 100 More than or equal to 55 74 More than or equal to 55 74 More than or equal to 60 54 More than or equal to 65 24 \\ \hline Plotting of points (40, 100) (45, 96) (50, 90) (55, 74) (60, 54) (65, 24) join to get ogive. \\ \hline$		21-23	5	22		110		
$\overline{\frac{40+f}{\Sigma f}} = \overline{\frac{704+20f}{40+f}} \Rightarrow f=8$ \overline{OR} The following table gives production yield per hectare of wheat of 100 farms of a village : $\overline{Production \ yield} = 40-45 + 45-50 + 50-55 + 55-60 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60-65 + 65-70 + 60-65 + 60$		23-25	4	24		96		
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ORThe following table gives production yield per hectare of wheat of 100 farms of a village :Production yield $40-45$ $45-50$ $50-55$ $55-60$ $60-65$ $65-70$ No. of farms4616203024Change the distribution to a 'more than' type distribution and draw its ogive.Ans:More than or equal to 40100More than or equal to 4596More than or equal to 5090More than or equal to 5574More than or equal to 6054More than or equal to 6524	Mean =	$\frac{\sum xf}{\sum f} \Rightarrow$	$18 = \frac{70}{100}$	$\frac{04+20f}{40+f}$	\Rightarrow f=8			
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