Marking Scheme

Class- X Session- 2021-22

TERM 1

Subject- Mathematics (Standard)

	SECTION A			
QN	Correct Option	HINTS/SOLUTION	MAB KS	
1	(b)	Least composite number is 4 and the least prime number is 2. $LCM(4,2)$: HCF(4,2) = 4:2 = 2:1	1	
2	(a)	For lines to coincide: $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ so, $\frac{5}{15} = \frac{7}{21} = \frac{-3}{-12}$ i.e. $k = 9$, a	
3	(b)	By Pythagoras theorem The required distance = $\sqrt{(200^{\circ} + 150^{\circ})}$ = $\sqrt{(40000 + 22500)}$ = $\sqrt{(62500)}$ = 250m. So the distance of the girl from the starting point is 250m.	1	
4	(d)	Area of the Rhombus = $\frac{1}{2} d_{1}d_{2} = \frac{1}{2} \times 24 \times 32 = 384 \text{ cm}^{2}$. Using Pythagoras theorem side ² = $(\frac{1}{2}d_{1})^{2} + (\frac{1}{2}d_{2})^{2} = 12^{2} + 16^{2} = 144 + 256 = 400$ Side = 20cm Area of the Rhombus = base x altitude $384 = 20 \times \text{altitude}$ So altitude = $384/20 = 19.2 \text{cm}$	•	
5	(a)	Possible outcomes are (HH), (HT), (TH), (TT) Favorable outcomes (at the most one head) are (HT), (TH), (TT) So probability of getting at the most one head = 3/4	1	
6	(d)	Ratio of altitudes = Ratio of sides for similar triangles So AM:PN = AB:PO = 2:3	1	
7	(b)	$2\sin^2\beta - \cos^2\beta = 2$ Then $2\sin^2\beta - (1 - \sin^2\beta) = 2$ $3\sin^2\beta = 3 \text{ or } \sin^2\beta = 1$ $\beta \text{ is } 90^{\circ}$	1	
S	(c)	Since it has a terminating decimal expansion, so prime factors of the denominator will be 2.5	1	
9	(a)	Lines x=a is a line parallel to y axis and y=b is a line parallel to x axis. So they will intersect.	1	
10	(d)	Distance of point A(-5,6) from the origin(0,0) is $\sqrt{(0+5)^2 + (0-6)^2} = \sqrt{25+36} = \sqrt{61}$ units		
11	(b)	$a^2=23/2.5$, then $a=\sqrt{23}/5$, which is irrational	1	
12	(e)	LCM X HCF = Product of two numbers $36 \times 2 = 18 \times x$ x = 4	1	
13	(b)	tan A= $\sqrt{3}$ = tan 60° so \angle A=60°. Hence \angle C = 30°. So cos A cos C- sin A sin C = (1/2)x ($\sqrt{3}$ /2) - ($\sqrt{3}$ /2)x (1/2) = 0	1	
14	(a)		1	

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Nelson H.F. Beebe

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