Marking Scheme
Class- X Session- 2021-22
TERM 1
Subject- Mathematics (Standard)

QN	Correct Option	SECTION A HINTS/SOLUTION	MARKS
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, $\frac{5}{15} = \frac{7}{21} = \frac{-3}{-k}$ i.e. k= 9	1
3	(b)	By Pythagoras theorem The required distance $= \sqrt{(200^2 + 150^2)}$ $= \sqrt{(40000 + 22500)} = \sqrt{(62500)} = 250m$. So the distance of the girl from the starting point is 250m.	1
4	(d)	Area of the Rhombus $= \frac{1}{2} d_1 d_2 = \frac{1}{2} \times 24 \times 32 = 384$ cm². Using Pythagoras theorem side² $= (\frac{1}{2}d_1)^2 + (\frac{1}{2}d_2)^2 = 12^2 + 16^2 = 144 + 256 = 400$ Side = 20cm Area of the Rhombus = base x altitude 384 = 20 x altitude So altitude = 384/20 = 19.2cm	1
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:PQ = 2:3	1
7	(b)	$2\sin^2\beta - \cos^2\beta = 2$ Then $2\sin^2\beta - (1- \sin^2\beta) = 2$ $3\sin^2\beta = 3$ or $\sin^2\beta = 1$ β is 90°	1
8	(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	1
11	(b)	$a^2 = 23/25$, then $a = \sqrt{23}/5$, which is irrational	1
12	(c)	LCM X HCF = Product of two numbers 36 X 2 = 18 X 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)	1x +1x +2x =180°, x = 45°. $\angle A$, $\angle B$ and $\angle C$ are 45°, 45° and 90°resp. $\frac{\sec A}{\csc B} - \frac{\tan A}{\cot B} = \frac{\sec 45}{\csc 45} - \frac{\tan 45}{\cot 45} = \frac{\sqrt{2}}{\sqrt{2}} - \frac{1}{1} = 1-1= 0$	1

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JA Banks

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