## Class VIII Session 2023-24 Subject - Maths Sample Question Paper - 2

Гime All	owed: 3 hours	Maximum Mark	s: 80
1.	Find: $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$		[1]
	a) 2	b) 0	
	c) 1	d) $\frac{1}{2}$	
2.	The numerical expression $\frac{3}{8} + \left(\frac{-5}{7}\right) = \frac{-19}{56}$ sho	ows that	[1]
	a) addition of rational numbers is not	b) rational numbers are not closed under	
	commutative	addition	
	c) rational numbers are closed under multiplication	d) rational numbers are closed under addition	
3.	If $\frac{5x}{3} - 4 = \frac{2x}{5}$ , then the numerical value of 2x	- 7 is	[1]
	a) $\frac{19}{13}$	b) $\frac{13}{19}$	
	c) $-\frac{13}{19}$	d) 0	
4.	In which quadrilateral only one diagonal is bisect	ted?	[1]
	a) Rectangle	b) Rhombus	
	c) Kite	d) Square	
5.	The value of $\sqrt{248+\sqrt{52+\sqrt{144}}}$ is		[1]
	a) 13	b) 16	
	c) 14	d) 12	
6.	Which of the following numbers is not a perfect	cube?	[1]
	a) 343	b) 567	
	c) 125	d) 216	
7.	Find the prime factorisation of 6859.		[1]
	a) 6 <sup>8</sup>	b) <sub>34</sub> 7	
	c) <sub>23</sub> <sup>3</sup>	d) 19 <sup>3</sup>	
8.	The list price of a frock is Rs 220. A discount of	20% is announced on sales. What is the sale price?	[1]
	a) Rs 122	b) Rs 154	
	c) Rs 176	d) Rs 144	
9.	The difference of compounded and simple interest	st on any amount at 4% annual rate of interest for 2 years $\mathbb{P}$ is 4.	[1]

Page 1 of 12

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Find the principal?

	a) ₹2500	b) ₹2000	
	c) ₹2400	d) ₹2600	
10.	Find C.I.on Rs 20,000 for 3 years at 20% per annum of	compounded annually.	[1]
	a) Rs 14,000	b) Rs 15,000	
	c) None of these	d) Rs 14,560	
11.	Find the volume of a cuboid whose length is 8 cm, wi	dth is 3 cm and height is 5 cm.	[1]
	a) <sub>120cm<sup>3</sup></sub>	b) 120 cm	
	c) 120 cm <sup>2</sup>	d) <sub>125</sub> cm <sup>3</sup>	
12.	The outer dimensions of a water tank are 7 meters, 6 How many quarts do you need to paint the outer walls	meters and 5 meters. A quart of paint covers about 15 m <sup>2</sup> . s of the tank?	[1]
	a) 8.6 quarts	b) 7.6 quarts	
	c) 9.6 quarts	d) 10.6 quarts	
13.	If the volume of a cube is divided by its surface area, cube?	the result is 2.5 cm. What is the length of the edge of the	[1]
	a) 15 cm	b) 12 cm	
	c) 20 cm	d) 10 cm	
14.	If x be any integer different from zero and m be any p	positive integer, then x <sup>-m</sup> is equal to	[1]
	a) $\frac{1}{x^m}$	b) $\frac{-1}{x^m}$	
	c) <sub>X</sub> m	d) <sub>-X</sub> m	
15.	If x be any non-zero integer, then $x^{-1}$ is equal to		[1]
	a) -x	b) $\frac{1}{x}$	
	c) x	d) $\frac{-1}{x}$	
16.	The value of $(0.000064)^{\frac{5}{6}}$ is		[1]
	a) $\frac{32}{100000}$	b) $\frac{16}{10000}$	
	c) $\frac{32}{10000}$	d) $\frac{16}{100000}$	
17.	If 32 men can reap a field in 15 days, in how many da	tys can 20 men reap the same field?	[1]
	a) 32 days	b) 24 days	
	c) 28 days	d) 20 days	
18.	In a camp, there is enough flour for 300 persons for 4 the camp?	2 days. How long will the flour last if 20 more persons join	[1]
	a) 40 days	b) 51 days	
	c) $39\frac{3}{8}$ days	d) $42\frac{1}{4}$ days	
19.	A graph that displays data that changes continuously	over periods of time is	[1]

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	c) Pie chart	d) Bar graph			
20.	The given graph shows the progress of a cyclist du	ring a ride.	[1]		
	Cyclist Cyclist S				
	Time $\rightarrow$ Which of the following describe the rider's progres	ss over the period of time.			
	a) Cyclist moves with uniform speed.	b) Speed of cyclist increases for a short time period and then increases very slowly.			
	c) As time passes the speed of cyclist decreases steadily.	d) As time passes speed of cyclist increases.			
21.	Let a, b, c be the three rational numbers where a = (Associative property of addition).	$\frac{2}{3}$ , b = $\frac{4}{5}$ and c = $\frac{-5}{6}$ then verify that a + (b + c) = (a + b) + c	[2]		
22.	Solve the equation and check your result: $5x + 9 =$	5 + 3x	[2]		
23.	Consider the parallelogram. Find the degree values	of the unknowns x, y, z.	[2]		
	× 30°)				
24.	Find the square root of 529 by Division method.		[2]		
25.	Using prime factorisation, find the cube root of 219	97.	[2]		
26.	Kritika is following this recipe for bread. She realis	ses her sister used most of sugar syrup for her breakfast.	[2]		
	Kritika has only $\frac{1}{6}$ cup of syrup, so she decides to	make a small size of bread. How much of each ingredient			
	shall she use?				
	Bread recipe				
	1 cup quick cooking oats				
	2 cups bread flour				
	$\frac{1}{3}$ cup sugar syrup				
	1 tablespoon cooking oil				
	$1\frac{1}{3}$ cups water				
	3 tablespoons yeast				
	1 teaspoon salt.				
27.	Divide as directed: $5(2x + 1)(3x + 5) \div (2x + 1)$		[2]		
28.	Solve: 4(3p + 2) - 5 (6p - 1) = 2 (p - 8) - 6 (7p - 4)		[3]		
29.	Consider the parallelogram. Find the degree values	s of the unknowns x, y, and z.	[3]		
	$\cdot$				

b) Line graph

30. A box contains 19 cards having numbers 1, 2, 3, .... 19. A card is drawn from the box. What is the probability [3]

Page 3 of 12

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7

a) Histogram

that the number on the card is divisible by 5.

- 31. Find the least number which must be added to 6412 so as to get a perfect square. Also find the square root of the **[3]** perfect square so obtained.
- 32. What must be added to  $2m^2 3mn + 3n^2$  to get  $5m^2 + 2mn + 7n^2$ ?

33. Subtract: 
$$3a(a + b + c) - 2b(a - b + c)$$
 from  $4c(-a + b + c)$ .

- 34. Rani bought a syrup in a glass bottle. The shape of the bottle is cylindrical with diameter 6cm and height 15cm. **[3]** Find the volume of the bottle?
- 35. Find x, if  $6^{2x} \div 6^{-4} = 36$ .
- 36. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and [4] summer.

Season	No. of votes
Summer 💥	90
Rainy	120
Winter	150

i. Which season got the most votes?

- ii. Find the central angle of each sector?
- iii. Draw a pie chart to show this information.
- 37. A suitcase with measures 80 cm × 48 cm × 24 cm is to be covered with a trapaulin cloth. How many metres of [4] trapaulin of width 96 cm is required to cover 100 such suitcases ?
- 38. Factorize  $6x^2 13x + 6$

Question No. 39 to 43 are based on the given text. Read the text carefully and answer the questions:	[5]
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Simran went to a shop which gives 20% discount the following items during sale.



- 39. Discount is equal to Marked price \_\_\_\_\_
- 40. Find the sale price of a dress marked at ₹ 1200?

a) ₹ 960	b) ₹ 1000
c) ₹ 1200	d) ₹ 900

41. How much discount she will get on pair of shoes marked at ₹ 750.

a) 250	b) 200
u) <b>1</b> 00	0) =00

c) 100 d) 150

42. Find the sale price of a bag marked at ₹ 2000?

Page 4 of 12

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[3]

[3]

[3]

[4]

a) ₹ 1800	b) ₹ 400
c) ₹ 1500	d) ₹ 1600

43. Her total saving in the shopping is  $\gtrless$  800.

a) True b) False

## Question No. 44 to 48 are based on the given text. Read the text carefully and answer the questions:

Once Rohan was admitted in hospital due to heavy fever and body pain. Doctor did test for typhoid fever .The results revealed the positive for typhoid.



The doctor was not still sure about the illness .He advised the nurses to record the patient's temperature hourly. The record of temp has been plotted as per above graph.

44. What was the patient's temperature at 1 p.m.?

	a) 36.5 °C	b) 37 °C
(	c) <u>38</u> °C	d) 39 °C
45. What w	vas the patient's temperature at 10.30 am?	
i	a) 36.5 °C	b) 39 °C
	c) <u>38</u> ºC	d) <sub>37.5</sub> °C
46. From v	which time temp raised very high?	
i	a) 10 am	b) 11am
(	c) 9 am	d) 12 pm
47. The hig	ghest temp was °C.	
48. After 1	1 am temperature stated coming down.	
i	a) True	b) False

Page 5 of 12

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[5]

## Solution

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1.
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(d) 
$$\frac{1}{2}$$
  
Explanation:  $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times (\frac{-14}{9})$   
 $= \frac{-12}{35} \times \frac{-210}{144}$   
 $= \frac{6}{12}$   
 $= \frac{1}{2}$ 

2.

(d) rational numbers are closed under addition

**Explanation:** In the given expression the addition of two rational numbers is given and the result obtained is also a rational number.

3.

(c)  $-\frac{13}{19}$ Explanation:  $\frac{5x}{3} - 4 = \frac{2x}{5}$   $\frac{5x}{3} - \frac{2x}{5} = 4$   $\frac{25x - 6x}{15} = 4$   $19x = 15 \times 4$   $x = \frac{60}{19}$ hence, 2x - 7  $= 2 \times \frac{60}{19} - 7$   $= \frac{120}{19} - 7$   $= \frac{120 - 133}{19}$  $= -\frac{13}{10}$ 

(c) Kite

**Explanation:** A quadrilateral is a kite if and only if any one of the following condition is true:

- Two disjoint pairs of adjacent sides are equal
- One diagonal is the perpendicular bisector of other diagonal
- one diagonal is a line of symmetry
- one diagonal bisects a pair of opposite angles.

5.

**(b)** 16

**Explanation:** We have,  $\sqrt{248 + \sqrt{52 + \sqrt{144}}}$ =  $\sqrt{248 + \sqrt{52 + 12}}$  ...[:: square root of 144 = 12] =  $\sqrt{248 + \sqrt{64}}$ =  $\sqrt{248 + 8}$  [:: square root of 64 = 8] =  $\sqrt{256}$  = 16 [:: square root of 256 = 16]

6.

**(b)** 567

**Explanation:** 567 =  $3 \times 3 \times 3 \times 3 \times 7$ 

Clearly, 567 is not a perfect cube, because in grouping, the factors of equal factors, we are left with two factors  $3 \times 7$ .

7.

**(d)** 19<sup>3</sup>

Page 6 of 12

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Explanation: 6859 = 19 \times 19 \times 19
= 19^3
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8.

(c) Rs 176 Explanation: The list price of frock = Rs 220 Discount =  $220 \times \frac{20}{100}$ = Rs 44 Sale price = Rs(220 - 44) = Rs 176

9. **(a)** ₹2500

Explanation: Difference between C.I. and S.I. for 2 years.

 $d = P\left(\frac{r}{100}\right)^{2}$   $4 = P\left(\frac{4}{100}\right)^{2}$   $4 = P \times \left(\frac{1}{25}\right)^{2}$   $P = 4 \times 625$  = ₹2500

10.

(d) Rs 14,560 Explanation: C.I.=  $P(1 + \frac{r}{100})^3 - P$ = 20,000 $(1 + \frac{20}{100})^3 - 20,000$ = 20,000 $(\frac{6}{5})^3 - 20,000$ = 34,560 - 20,000 = Rs 14,560

11. **(a)** 120cm<sup>3</sup>

**Explanation:** Length of the cuboid = 8 cm Width of the cuboid = 3 cm Height of the cuboid = 5 cm Volume of a cuboid = length  $\times$  breadth  $\times$  height Therefore, Volume of the given cuboid = 8  $\times$  3  $\times$  5 = 120 cm<sup>3</sup>

12. (a) 8.6 quarts

**Explanation:** length = 7m , breadth = 6m and height = 5m Surface area of four walls =  $2 \times \text{height}(\text{length} + \text{breadth})$ S =  $2 \times 5(7 + 6)$ 

 $S = 10(13) = 10 \times 13 = 130m^2$ 

A quart of paint covers 15m<sup>2</sup>

 $15m^2 = 1$  Qaurt of paint

 $1m^2 = \frac{1}{15}$  quart of paint 130 m<sup>2</sup> =  $\frac{1}{15} \times 130 = 8.6$  quart of paint.

8.6 quarts of paint is needed.

## 13. **(a)** 15 cm

**Explanation:** let the side of cube be x cm Volume of cube =  $(side)^3$ 

$$\mathbf{V} = (\mathbf{x})^3 = \mathbf{x}^3$$

Surface area of cube =  $6(side)^2$ S =  $6(x)^2 = 6x^2$ according to question,

 $rac{volume}{surfacearea}=2.5cm$ 

Page 7 of 12

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 $\frac{x^3}{6x^2} = 2.5$  $\frac{x}{6} = 2.5$  $x = 2.5 \times 6 = 15 \text{ cm}$ length of cube is 15 cm.

14. (a)  $\frac{1}{x^m}$ 

**Explanation:** Using law of exponents,  $a^{-m} = \frac{1}{a^m}$ Similarly,  $x^{-m} = \frac{1}{x^m}$  [:: a is non-zero integer]

15.

**(b)**  $\frac{1}{x}$  **Explanation:** Using law of exponents,  $a^{-m} = \frac{1}{a^m}$  [ $\therefore$  a is non-zero integer]

Similarly,  $x^{-1} = \frac{1}{x}$ 

16. **(a)**  $\frac{32}{100000}$ 

Explanation: 
$$(0.000064)^{\frac{5}{6}} = \left(\frac{64}{1000000}\right)^{\frac{3}{6}}$$
$$= \left[\left\{\left(\frac{2}{10}\right)^6\right\}^{1/6}\right]^5 = \left(\frac{2}{10}\right)^5 = \frac{32}{100000}$$

17.

(b) 24 days

**Explanation:** This is a case of inverse proportion as with a decrease in the number of men the number of days needed to reap the field will increase.

In inverse proportion, the value of constant is given by  $\mathbf{x}\times\mathbf{y}$ 

 $32 \times 15 = 20 \times a$  (where a is the number of days needed to reap the field)  $480 = 20 \times a$ 

 $\frac{480}{20} = a$ 24 days = a

18.

(c)  $39\frac{3}{8}$  days

Explanation: If number of persons increase, then flour consume more. So, this is the case of inverse proportion.

Number of persons	300	320
Number of days	42	х

 $300 \times 42 = 320 \times x$  $x = \frac{300 \times 42}{320}$  $x = 39\frac{3}{8} \text{ days.}$ 

19.

(b) Line graph

**Explanation:** Line graph is an important way to represent and compare the data which varies continuously. A line graph displays the relation between two varying quantities. In a line graph, we connect all the points by a line segment while in bar graph and histogram, we use rectangles of uniform width.

20.

(c) As time passes the speed of cyclist decreases steadily.

Explanation: As time passes, the speed of cyclist decreases steadily.

21. Taking L.H.S = a + (b + c)

$$= \frac{2}{3} + \left\lfloor \frac{4}{5} + \left( \frac{-5}{6} \right) \right\rfloor$$
$$= \frac{2}{3} + \left\lfloor \frac{24-25}{30} \right\rfloor$$
$$= \frac{2}{3} + \left( \frac{-1}{30} \right)$$

Page 8 of 12

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 $=\frac{20-1}{30}=\frac{19}{30}$ Now taking R.H.S. = (a + b) + c $= \left(\frac{2}{3} + \frac{4}{5}\right) + \left(\frac{-5}{6}\right)$  $= \left(\frac{10+12}{15}\right) + \left(\frac{-5}{6}\right)$  $= \frac{22}{15} - \frac{5}{6} = \frac{44-25}{30} = \frac{19}{30}$  $So, \frac{2}{3} + \left[\frac{4}{5} + \left(\frac{-5}{2}\right)\right] = \left(\frac{2}{3} + \frac{4}{5}\right) + \left(\frac{-5}{6}\right)$ Hence, verified. 22. 5x + 9 = 5 + 3x $5x - 3x = 5 - 9 \dots$  [Transposing 3x to L.H.S. and 9 to R.H.S]  $\therefore 2x = -4$  $\therefore x = -\frac{4}{2}$  ... [Dividing both sides by 2]  $\therefore$  x = -2 this is the required solution. Verification L.H.S. = 5(-2) + 9 = -10 + 9 = -1R.H.S. = 5 + 3(-2) = 5 - 6 = -1Therefore, L.H.S = R.H.S 23. x = 90° [Vertically opposite angles]  $x + y + 30^{\circ} = 180^{\circ}$  [Sum of angles of a triangle is equal to  $180^{\circ}$ ]  $\Rightarrow 90^{\circ} + y + 30^{\circ} = 180^{\circ}$  $\Rightarrow 120^{\circ} + y = 180^{\circ}$  $\Rightarrow$  y = 180° - 120° = 60°  $y = z = 60^{\circ}$  [Vertically opposite angles] 23 2 5 29 - 4 <sup>24.</sup> <del>4</del>3 1 29 -1 29 0 Therefore,  $\sqrt{529} = 23$ 25. We have, 2197 13 2197 13 169 13 13 1 Now,  $2197 = 13 \times 13 \times 13$  $\sqrt[3]{2197} = 13$ · · . 26. According to the information given, After used of most of sugar syrup for her breakfast, the remaining sugar is  $\frac{1}{6}$  cup of sugar syrup. Thus, it means  $1 - \frac{1}{6} = \frac{5}{6}$  has been used. She need  $\frac{1}{3}$  cup of sugar syrup for one piece of bread. So, new quantity of ingredients will be in proportion of  $\frac{1}{2}$ . Now, the bread recipe will look like  $\frac{1}{2}$  cup quick-cooking oats 1 cups bread flour  $\frac{1}{6}$ cup sugar syrup  $\frac{1}{2}$  tablespoon cooking oil cups water tablespoons yeast teaspoon salt. 27.  $5(2x + 1)(3x + 5) \div (2x + 1)$ 5(2x+1)(3x+5)

$$=\frac{3(2x+1)(3x)}{2x+1}$$

Page 9 of 12

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= 5(3x + 5)28. Given, 4 (3p + 2) - 5 (6p - 1) = 2 (p - 8) - 6 (7p - 4)  $\Rightarrow$  12p + 8 - 30p + 5 = 2p - 16 - 42p + 24  $\Rightarrow$  -18 p+ 13 = - 40p + 8  $\Rightarrow$  -18p + 40p = 8 -13 [transposing -40p to LHS and 13 to RHS]  $\Rightarrow 22p = -5$  $\Rightarrow \frac{22p}{22} = \frac{-5}{22}$  [dividing both sides by 22]  $\therefore \quad p = \frac{-5}{22}$ 29.  $x + 50^\circ = 180^\circ$  [Conjoint angles are equal]  $\Rightarrow$  x = 180° - 50° = 130° y = x = 130°[ Opposite angles of a parallelogram are equal]  $180^{\circ} - z = 50^{\circ}$  $\Rightarrow$  z = 180° – 50° = 130° [Sum of angles on a straight line is equal to two right angles] 30. The out comes are = 1, 2, 3, .... 19 Total number of outcomes= 19 Numbers divisible by 5 = 5,10,15Probability of an event =  $\frac{Tvumber of outcomes of the experiment}{Total number of outcomes of the experiment}$ Number of outcomes that make an event The probability of number on the card is divisible by 5=3/1980 8 64 12 - 64 <sup>31.</sup> 160 12 - 0 12 This shows that  $80^2 < 6412$ Next perfect square is  $81^2 = 6561$ Hence, the number to be added is  $81^2 - 6412 = 6561 - 6412 = 149$ Therefore, the perfect square so obtained is 6412 + 149 = 6561Hence,  $\sqrt{6561} = 81$ . 32. Let the number added is x,  $(2m^2 - 3mn + 3n^2) + x = (5m^2 + 2mn + 7n^2)$  $x = (5m^2 + 2mn + 7n^2) - (2m^2 - 3mn + 3n^2)$  $x = 5m^2 + 2mn + 7n^2 - 2m^2 + 3mn - 3n^2$  $x = 3m^2 + 5mn + 4n^2$ So, the number is  $3m^2 + 5mn + 4n^2$ . 33. 4c(-a + b + c) - [3a(a + b + c) - 2b(a - b + c)] $= -4ac + 4bc + 4c^{2} - [3a^{2} + 3ab + 3ac - 2ab + 2b^{2} - 2bc]$  $= -4ac + 4bc + 4c^{2} - [3a^{2} + 2b^{2} + 3ab - 2bc + 3ac - 2ab]$  $= -4ac + 4bc + 4c^{2} - [3a^{2} + 2b^{2} + ab + 3ac - 2bc]$  $= -4ac + 4bc + 4c^{2} - 3a^{2} - 2b^{2} - ab - 3ac + 2bc$  $= -3a^{2} - 2b^{2} + 4c^{2} - ab + 4bc + 2bc - 4ac - 3ac$  $= -3a^2 - 2b^2 + 4c^2 - ab + 6bc - 7ac$ 34. Radius of the cylindrical bottle =  $\frac{diameter of the bottle}{2}$  $=\frac{6}{2}=3cm$ Height of the bottle = 15 cmWe know that volume of a cylinder = area of the base  $\times$  height So volume of the bottle  $= \pi r^2 \times h$  $= 3.14 \times 3 \times 3 \times 15 = 423.9 \text{ cm}^3$ Approximate volume of the bottle =  $424 \text{ cm}^3$ 



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35.  $6^{2x} \div 6^{-4} = 36 = 6^2$   $6^{2x} \div 6^{-4} = 6^2$   $6^{2x} + 4 = 6^2$  2x + 4 = 2 2x = 2 - 4 2x = -2x = -1

36. i. Winter season got the most votes.

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ii. Central angle of winter sector
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 $= \frac{Number of people who vote for winter season}{Total number of people}$  $= \frac{150}{360} = \frac{5}{12} \text{ of } 360^{\circ} = 150^{\circ}$ 

Central angle of summer sector

= <u>Number of people who vote for summer season</u>

Central angle of rainy sector

= Number of people who vote for rainy season

$$120 = 1$$
 of 2600 = 1200

$$=\frac{120}{360}=\frac{1}{3}$$
 of  $360^{\circ}=120^{\circ}$ 

iii. Pie Chart



Season	People who voted for it	In fraction	fractions of 360°
Winter	150	$\frac{5}{12}$	$\frac{5}{12}$ of 360° = 150°
Summer	90	$\frac{1}{4}$	$\frac{1}{4}$ of 360° = 90°
Rainy	120	$\frac{1}{3}$	$\frac{1}{3}$ of 360° = 120°

37. Total surface area of the suitcase

 $= 2 (80 \times 48 + 48 \times 24 + 24 \times 80)$ 

= 2 (3840 + 1152 + 1920)

= 2 (6912)

 $= 13824 \text{ cm}^2$ 

 $\therefore$  Length of trapaulin required to cover 1 suitcase

 $= \frac{Total Surface area of the suitcase}{Total Surface area of the suitcase}$ 

- width of trapaulin
- $=\frac{13824}{96}$

= 144 cm

- $\therefore$  Length of trapaulin required to cover 100 such suitcase
- = 144 × 100 cm
- = 14400 cm

= 144 m

Hence, 144 m of trapaulin is required.

38. The given expression is  $6x^2 - 13x + 6$ 

Here coefficient of  $x^2 = 6$ , coefficient of x = -13 and constant term = 6 So we write the middle term -13x as -4x, -9x

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Thus we have,

6x<sup>2</sup> - 13x + 6 = 6x<sup>2</sup> - 4x - 9x + 6= 2x(3x - 2) - 3 (3x - 2)= (3x - 2)(2x - 3)

- 39. 1. Sale price
- 40. (a) ₹ 960 Explanation: ₹ 960
- 41. (d) 150 Explanation: 150
- 42. (d) ₹ 1600Explanation: ₹ 1600
- 43. **(b)** False **Explanation:** False
- 44. (a) 36.5 °C Explanation: 36.5 °C
- 45. **(d)** 37.5 °C

Explanation: 37.5 °C

- 46. (a) 10 am **Explanation:** 10 am
- 47. 1.39
- 48. (a) True Explanation: True

Page 12 of 12

