

### INDIAN SCHOOL AL WADI AL KABIR

**Final Examination Revision Worksheet (2022-23)** 

Class: VIII Sub: MATHEMATICS Max Marks: 80

#### Instructions:

Section A: Multiple Choice Question (Q.1 to Q.5) & Source-based question (Q.6)

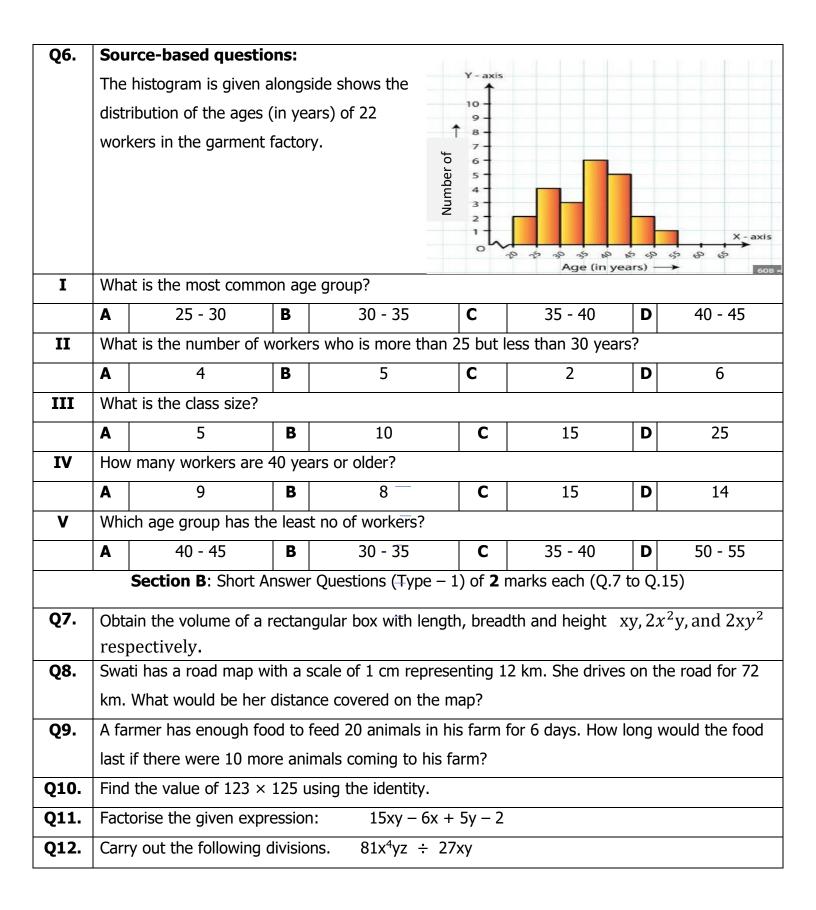
Section B: Short Answer Questions of 2 marks each (Q.7 to Q.15)

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.16 to Q.23)

Section D: Long Answer Questions (Type-2) (Q.24 to Q.28) &Case study Question (Q.29 & Q.30) 4

marks each

Section A: Multiple Choice Question (Q.1 to Q.5) of 1 mark each								
Q1.	Find the multiplicative inverse of $\frac{-6}{5}$							
	A	$-\frac{1}{5}$	В	<u>5</u> 6	С	6 5	D	- <u>5</u>
Q2.	Find the product of $2y$ and $(3y - 7)$							
	A	$9y^2 - 14$	В	$6y^2 - 14y$	С	$y^2 - 14y$	D	14y- 2
Q3.	Factorise: $9xy^2 + 45y$							
	A	9y(xy+5)	В	9 <i>y</i> ( <i>xy</i> - 5)	С	9y(y+5)	D	9(xy+5)
Q4.	Sam purchased a table fan for ₹2,500 and sold it for ₹2,000. Find the loss%.							
	A	30%	В	20%	С	50%	D	25%
Q5.	A varies directly as B, and A is equal to 5 when $B = 35$ . Find A when $B = 63$ .							
	A	19	В	7	С	8	D	9



Q13.	The cost price of a pair of roller skates at a shop was ₹450. A discount of 5% was offered on it.								
	Find the bill amount.								
Q14.	Radwan bought an air cooler for ₹ 3,300 including a tax of 10%. Find the price of the air cooler								
	before VAT was added.								
Q15.	Find the value using distributive								
	property: $\left[\frac{3}{5} \times \frac{-2}{7}\right] + \left[\frac{3}{5} \times \frac{3}{14}\right]$								
Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.16 to Q.23)									
Q16.	The pie chart shows each student's subject of  ( History: 8.0%								
	interest in a class. Answer the following  Geography: 24.0%								
	question concerning the given pie diagram.  Mathematics: 20.0%								
	i) If 30 students show their interest in								
	history, how many total students								
	were surveyed?								
	ii) Which subject is like the most?								
	iii) How many students are interested in Science: 36.0%								
	geography?								
Q17.	A car takes 2 hours to reach a destination by travelling at the speed of 50 km/hr. How long will								
	it take when the car travels at the speed of 80 km/hr.? Also, if the 4 hours is taken by a car								
	then find the speed of a car.								
Q18.	Use a suitable identity to get the product.								
	(2x + 3y)(2x + 3y)								
Q19.	Find the product Using a suitable identity.								
	(4x + 5) (4x - 1)								
Q20.	Divide the given polynomial by the given monomial.								
	$(5x^2zy^2 - 6xy^3 + 9xy) \div 3xy$								
Q21.	Find the amount and compound interest for ₹7200 for 2 years at 8% p.a. compounded yearly.								
Q22.	Factorise: y <sup>2</sup> + 8y +15								
Q23.	Represent given rational numbers $\frac{-2}{5}$ , 0, $\frac{1}{5}$ , $\frac{3}{5}$ , 1 on a number line.								

# **Section D**: Long Answer Questions (Type – 2)

(Q.24 to Q.28) & Case study (Q.29 &30) of 4 marks each

- **Q24.** Write four rational numbers between  $\frac{3}{-2}$  and  $\frac{4}{-3}$ .
- **Q25.** Complete the table inverse variation

X	30	Α	10	С	D
Y	5	3	В	75	50

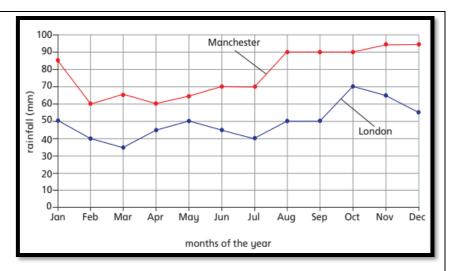
- **Q26.** Simplify the expressions:
  - (i) Evaluate them as directed:  $3x \times (2x^2 3) + 2$  for x = 2,
  - (ii) Add:  $5m (3 m) + 5 \text{ and } 6m^2 13m 7$
- **Q27.** Plot the following points and verify if they lie on a line.
  - (i) (5,3), (2,6), (4,4), and (1,7)
- **Q28.** Reeta invests ₹12,000 at the rate of 5% per annum for 2 years at simple interest in bank A and Megha invests the same amount for the same time period at 5% per annum compounded annually in bank B. Which bank offers more interest?
- **Q29. Case study 1:** Dulari runs a handicraft shop in Jaipur. She makes beautiful necklaces using colourful beads in Potli (bag). She counted the beads and found that there were 8 reds, 6 green and 14 blue for making necklace.

### Answer the following questions

- 1. Find the probability of a green bead?
- 2. Find the probability that bead drawn by she is not of green bead?
- 3. Find the probability that she draws either a green or a blue bead?
- 4. Find the probability of a red bead?



Q30. Case study 2: The average rainfall in London and Manchester is recorded for a year. This graph shown in the figure.



## **Answer the following questions**

- i) How many millimeters of rain falls in London in July?
- ii) When there was least rain fall in Manchester?
- iii) In January, how much more rainfall is there in Manchester than London?
- iv) How many months does it rain more than 50 mm in London?

# **ANSWER KEY**

Q.1	D	Q.2	В	Q.3	Α
Q.4	В	Q.5	9	Q. 6	I-C, II-A, III -A , IV - B, V- D
Q.7	4x <sup>4</sup> y <sup>4</sup>	Q.8	6 cm	Q.9	4 DAYS
Q.10	15,375	Q.11	(5y -2)(3x +1)	Q.12	3x³z
Q.13	₹427.50	Q.14	₹ 3,000	Q.15	c 3 70
Q.16	i-375 ii- SCIENCE iii-90	Q.17	3.2 hr, 100km/h	Q.18	$4x^2 + 12xy + 9y^2$
Q.19	16x <sup>2</sup> + 16x - 5	Q.20	5/3 xzy- 2y <sup>2</sup> + 3	Q.21	₹8398.08 ₹1198.08
Q.22	(y+3)(y+5)	Q.23	-	Q.24	$\frac{-87}{60}$ , $\frac{-89}{60}$ , $\frac{-88}{60}$ , $\frac{-83}{60}$
Q.25	A=50, B= 15, C=2,D= 3	Q.26	(i) 6x <sup>3</sup> - 9x + 2 , 32 (ii) 2m + 5m <sup>2</sup> - 2	Q.27	-
Q.28	Bank A SI =₹1,200  Bank B CI = ₹1,320 , Bank B	Q.29	1. 3/14 2. 11/14 3. 5/7 4. 2/7	Q.30	i) 40mm ii) Feb , Apr iii) 35mm iv) Oct ,Nov , Dec

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