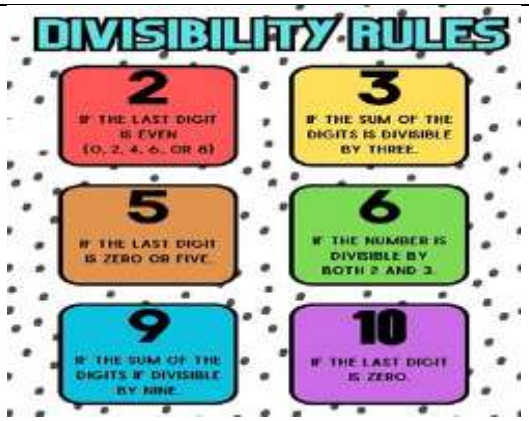
Indian School Al Wadi Al Kabir
Question Bank - Class: VI
MATHEMATICS

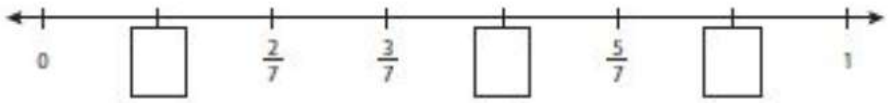
General Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.12)
Section B: Source based questions (Q.13 & Q.14)
Section C: Long Answer Questions (Q.15 to Q.23)
Section D: Case study (Q.24 & Q.25)

10.05.2026

	SECTION A Multiple Choice Question (Q.1 to Q.12)								
1.	Which of the following number is divisible by 3?								
	A.	821	**B.**	357	**C.**	425	**D.**	652	**1M**
2.	A shopkeeper packed 1 kg of wheat in 7 packets of equal weight. Then the weight of each packet is:								
	A.	$\frac{1}{2}$	**B.**	$\frac{1}{5}$	**C.**	$\frac{1}{6}$	**D.**	$\frac{1}{7}$	**1M**
3.	The greatest 4 – digit number which is exactly divisible by 6 is:								
	A.	9996	**B.**	9992	**C.**	9999	**D.**	9993	**1M**
4.	Aman ate $\frac{3}{7}$ of a pizza. What fraction of the pizza was left?								
	A.	$\frac{1}{7}$	**B.**	$\frac{2}{7}$	**C.**	$\frac{4}{5}$	**D.**	$\frac{4}{7}$	**1M**
5.	The number of whole units in the fraction $\frac{29}{3}$ is:								
	A.	6	**B.**	9	**C.**	5	**D.**	8	**1M**
6.	A water tank containing 9 litres of water was emptied equally into 6 buckets. The water poured into each bucket is:								
	A.	$\frac{6}{9}$	**B.**	$\frac{9}{2}$	**C.**	$\frac{3}{2}$	**D.**	$\frac{1}{9}$	**1M**
7.	The smallest 5 – digit number which is exactly divisible by 3 is:								
	A.	10002	**B.**	10003	**C.**	1002	**D.**	1003	**1M**
8.	A can had $\frac{5}{7}$ L of paint. $\frac{2}{14}$ L was used. How much paint is left?								
	A.	$\frac{8}{7}$ L	**B.**	$\frac{4}{7}$ L	**C.**	$\frac{12}{14}$ L	**D.**	$\frac{1}{7}$ L	**1M**
9.	The mixed fraction of $\frac{58}{13}$ is:								

	A.	$4\frac{6}{13}$	**B.**	$6\frac{4}{13}$	**C.**	$3\frac{19}{13}$	**D.**	$4\frac{5}{13}$	**1M**
10.	The number of proper fractions with denominator 7 is								
	A.	0	**B.**	1	**C.**	Infinite	**D.**	6	**1M**
11.	A jug contained $\frac{3}{4}$ litre of juice. Another $\frac{1}{8}$ litre was added. How much juice is there now?								
	A.	$\frac{1}{4}$	**B.**	$\frac{5}{8}$	**C.**	$\frac{7}{8}$	**D.**	$\frac{9}{8}$	**1M**
12.	Find the greatest fraction from the following fractions:								
	A.	$\frac{1}{5}$	**B.**	$\frac{1}{3}$	**C.**	$\frac{1}{50}$	**D.**	$\frac{1}{100}$	**1M**
	Section B: Source based questions (Q.13 and Q.14)								
13.	A **divisibility rule** is a shorthand and useful way of determining whether a given number is divisible by a fixed divisor without performing the division, usually by examining its digits. Based on the given information answer the following questions:							
i.	The number divisible by both 5 and 6 is:								
	A.	2355	**B.**	4620	**C.**	9860	**D.**	3256	**1M**
ii.	If the digit sum of a number is 9 then the number is divisible by:								
	A.	2	**B.**	5	**C.**	6	**D.**	3	**1M**
iii.	The number exactly divisible by 2,5 and 10 is:								
	A.	72030	**B.**	62205	**C.**	40125	**D.**	1002	**1M**
iv.	A number is divisible by 6, if it is								
	A.	Divisible by 2	**B.**	Divisible by 3	**C.**	Divisible by both 3 and 5	**D.**	Divisible by both 2 and 3	**1M**

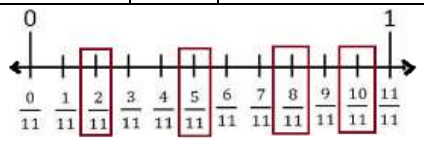
14.	At the Greenfield Sports Club, the coach wanted to find out which activities are most popular among the members. He conducted a survey of 75 members. Each member selected their favourite activities 30 members like Swimming, 20 members like Badminton, 15 members like Tennis the remaining members like Gym activities. Based on the given information answer the following questions:								
i	Find the fraction of members who like swimming.								
	A.	$\frac{30}{50}$	**B.**	$\frac{2}{5}$	**C.**	$\frac{32}{75}$	**D.**	$\frac{3}{5}$	**1M**
ii	Find the fraction of members who like Tennis.								
	A.	$\frac{4}{15}$	**B.**	$\frac{20}{30}$	**C.**	$\frac{25}{75}$	**D.**	$\frac{1}{5}$	**1M**
iii	The fraction of members who like gym is:								
	A.	$\frac{20}{75}$	**B.**	$\frac{15}{75}$	**C.**	$\frac{10}{65}$	**D.**	$\frac{2}{15}$	**1M**
iv	Which activity is selected by the least number of members?								
	A.	Swimming	**B.**	Gym	**C.**	Badminton	**D.**	Tennis	**1M**
	Section C: Long Answer Questions (Q15 to Q.23)								
15.	Check whether the given fractions are equivalent or not. a. $\frac{6}{9}$ and $\frac{24}{36}$ b. $\frac{12}{60}$ and $\frac{6}{35}$								**2M**
16.	Find the missing fractions in the given number line. 								**2M**
17.	A farmer harvested $5\frac{1}{9}$ kg of tomatoes on one day and $3\frac{2}{9}$ kg on the next day. Find the total harvest.								**2M**
18.	Is 8478 divisible by 3? If yes give reason.								**2M**
19.	Express the following fractions in lowest terms: a. $\frac{48}{98}$ b. $\frac{112}{154}$								**2M**

20.	Arrange the following fractions in the ascending order: a. $\frac{2}{3}, \frac{3}{4}, \frac{1}{2}, \frac{5}{6}$ b. $\frac{4}{9}, \frac{1}{6}, \frac{5}{9}, \frac{1}{3}$	**3M**
21.	Represent the following fractions on a number line: $\frac{2}{11}, \frac{5}{11}, \frac{8}{11}, \frac{10}{11}$	**3M**
22.	Check whether the following numbers are divisible by 3, 5 and 6. 45054; 82825; 69192	**3M**
23.	Ayaan scored $\frac{2}{3}$ in English and $\frac{4}{5}$ in Hindi. In which subject did he perform better and by how much?	**3M**
	Section D: (Case study Q.24 & Q.25)	
24.	**<u>Case study 1:</u>** A school garden is rectangular and is divided for vegetables. $\frac{1}{3}$ of the plot is used for carrots. $\frac{1}{4}$ of the plot is used for tomatoes. $\frac{1}{6}$ of the plot is used for potatoes and the rest is left for onions. Based on the given information answer the following questions:  1. Find the fraction of the garden used for carrots and tomatoes combined. 2. What fraction of the garden is used for onions? 3. Which vegetable occupies the smallest portion of the garden?	**4M**

25.	**<u>Case study 2:</u>** At a science exhibition, Aarav creates a secret 4-digit code lock for his robot box. The code is written as 174☐, where the last digit is missing. The robot will open only if the code is divisible by 2 and 3 but is not divisible by 5 Help Aarav find the correct digit.  1. Which digit can be placed in the units' place so that the code becomes divisible by 2 and 3? 2. For the digit chosen, check whether the code is divisible by 6. Justify your answer.	**4M**

All the Best!

Answers

1	B	**2**	D	**3**	A	**4**	D
5	B	**6**	C	**7**	A	**8**	B
9	A	**10**	D	**11**	C	**12**	B
13	i. B ii. D iii. A iv.D	**14**	i. B ii. D iii.D iv. B	**15**	a. Yes b.No	**16**	$\frac{1}{7}, \frac{4}{7}, \frac{6}{7}$
17	$8\frac{1}{3}\ kg$	**18**	Yes, A number is divisible by 3 if the sum of its digits is divisible by 3.	**19**	$a. \frac{24}{49}$ $b. \frac{8}{11}$	**20**	$a. \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$ $b. \frac{1}{6}, \frac{1}{3}, \frac{4}{9}, \frac{5}{9}$
21				**22**	45054 – Divisible by 3 82825 – Divisible by 5 69192 – Divisible by both 3&6.		
23	Ayaan performed better in Hindi by $\frac{2}{15}$.	**24**	a. $\frac{7}{12}$ b. $\frac{1}{4}$ c. Potatoes	**25**	a. The correct digit is 6. b. Yes, 1746 is divisible by 6 because it is divisible by both 2 and 3.		

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