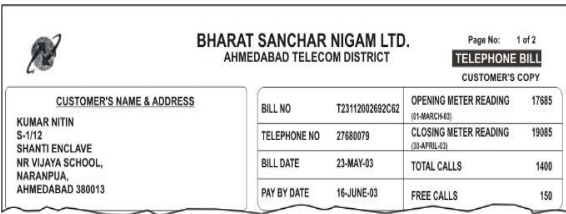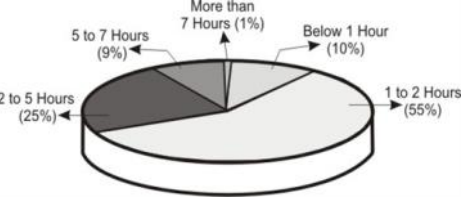# Set 10

Subject: Mathematics

Class VIII

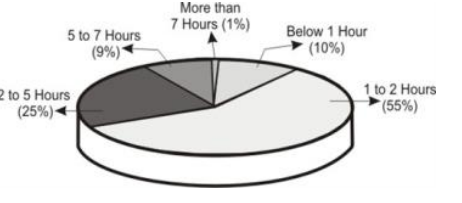| Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option - A, B,C ,D)
1	5_26 Mathematics 1676	Comparing Quantities	In a cricket match, Pakistan had to score 307 runs in 50 overs to win. They scored at an average rate of 5.6 runs per over in the first 20 overs. What should be their average run rate per over for the remaining overs in order to reach the target?		C

AnswerOptions			
Option A	Option B	Option C	Option D
5.6	6.14	6.5	8.4

Q. N	Folder Number & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer
2	5_26 Mathematics 1677	Comparing Quantities	It is believed that a rectangle in which the length to breadth ratio is about 1.62, is most pleasant to the human eye. Such a rectangle is called a Golden Rectangle. Which of the following rectangles is closest to a Golden Rectangle?		D

AnswerOptions			
Option A	Option B	Option C	Option D

A.	B.	C.	D.

3	5_26Mathematics 1678	Comparing Quantities	If we increase a number x by 33%, the resulting number would be		B

AnswerOptions			
Option A	Option B	Option C	Option D
33 + x	1.33x	$\dfrac{100x + 33}{100}$	34 x

4	5_26Mathematics 1682	Comparing Quantities	The ratio of Neha's age to that of Jane is 4:7 and the ratio of Jane's age to that of Smita is 4:3. If Smita is 21 years old, how old is Neha?		B

AnswerOptions			
Option A	Option B	Option C	Option D
4 years	16 years	21 years	28 years

5	5_26 Mathematics 1683	Comparing Quantities	A part of Mr. Nitin's telephone bill is shown in image 1. For what period this bill is given.	Image 1	D

AnswerOptions			
Option A	Option B	Option C	Option D
1st March 2003 to 31st March 2003.	23rd May 2003 to 16th June 2003.	16th June 2003 to 16th September 2003.	1st March 2003 to 30th April 2003.

| 6 | 5_26M athematics 1684 | Comparing Quantities | A part of Mr. Nitin's telephone bill is shown in image 1. Call charges are calculated as image 2. What are the total call charges for this bill? |

Image 1

Image 2 | C |

AnswerOptions			
Option A	Option B	Option C	Option D
Rs 1250	Rs 1400	Rs 1450	Rs 1500

| 7 | 5_26M athematics 1695 | Comparing Quantities | A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question What percent of the school children who were surveyed spend over 5 hours weekly on the computer? | | C |

AnswerOptions			
Option A	Option B	Option C	Option D
35	10	9	1

| 8 | 5_26M athematics 1696 | Comparing Quantities | A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question The actual number of students in the '2 to 5 Hours' category was 312.What was the total number of students who took | | C |

3

part in the survey?

AnswerOptions			
Option A	Option B	Option C	Option D
78	936	1248	3120

| 9 | 5_26Mathematics 1697 | Comparing Quantities | A survey was conducted among schoolchildren in a city to find out the average number of hours they spent on the computer every week. The results are shown in the pie chart. Study it to the answer question
Among the students who were in the 'Below 1 Hour' category, 5% had never used a computer. What percent of the total number of students surveyed had never used a computer? | | A |

AnswerOptions			
Option A	Option B	Option C	Option D
0.50%	2%	15%	50%

| 10 | 5_29 Mathematics 11375 | Comparing Quantities | Nandini makes 'halwa' one evening and divides it into four equal portions for her family of four. However, just as they are about to eat it, an unexpected guest arrives and Nandini has to now re-divide the halwa into five equal portions. By what percentage has each family member's share reduced due to this? | | C |

AnswerOptions			
Option A	Option B	Option C	Option D
5%	10%	20%	25%

11	5_29 Mathematics 11376	Comparing Quantities	Bipasha can eat 24 rasgullas in 12 minutes. Her friend Sujata takes double the time to eat the same number.One day they buy 24 rasgullas and start eating them. If they eat at their normal speeds till the rasgullas are over, how many rasgullas would Sujata have eaten?		B
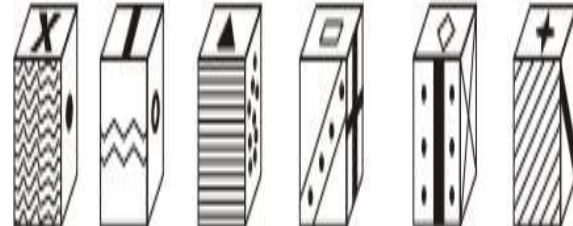
AnswerOptions			
Option A	Option B	Option C	Option D
6	8	12	16

12	5_29 Mathematics 11389	Comparing Quantities	See the table showing a relation between x and y. Which of these is the correct relation between x and y?	Table	B
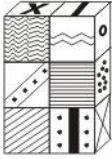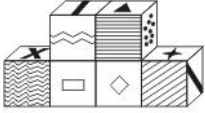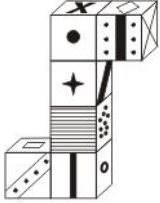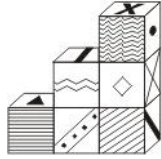
AnswerOptions			
Option A	Option B	Option C	Option D
4x = y	$\dfrac{x}{y} = 4$	xy = 4	y = x - 3

13	5_29 Mathematics 11390	Comparing Quantities	Shivani pays Rs. 450 for a ready-made salwar kurta set she buys from Grandways during a sale (see the notice). How much money did she save because of the sale?	Notice	B

AnswerOptions			
Option A	Option B	Option C	Option D
Rs 55	Rs 50	Rs 49.50	Rs 40.50

14	**2_11 Mathematics 4446**	VISUALISING SOLID SHAPES	Ginny has a set of 6 small cubes of the same size with designs painted on the faces. No two faces (among ALL 6 cubes) have the same design.		D

			Ginny wants to stick all 6 cubes together so that the maximum number of different designs are visible from outside. Which of the solids shown below should she form?		

AnswerOptions			
Option A	Option B	Option C	Option D
A.	B.	C.	D.

15	**2_11 Mathe matics 4444**	VISUALI SING SOLID SHAPES	What is the least number of degrees by which figure X has to be rotated about its centre to get figure Y?	X	Y	C

AnswerOptions			
Option A	Option B	Option C	Option D
60^0	45^0	30^0	15^0