

REVISION QUESTION BANK 4

Subject: Mathematics

Grade: VII

Percentage

- 1) Complete the following table:

S. No.	Fraction	Decimal	Percentage
(i)	.....	0.14	14%
(ii)	$\frac{1}{200}$	.....	.....
(iii)	.....	.....	20 %
(iv)	.....	0.59	.....
(v)	$\frac{9}{100}$	.....	.....

- 2) Express 35 paise as a percentage of ₹ 2.50.
- 3) If 30% of x is 72, then find the value of x .
- 4) In a class of 50 students, 40% are girls. Find the number of girls and number of boys in the class.
- 5) Out of 15000 voters in a constituency, 60% voted. Find the number of voters who did not vote.
- 6) The price of a cellphone reduced from ₹3500 to ₹3100. What percentage is the decrease from its original price?
- 7) In a clearance sale, a cloth merchant reduces the price by 14%. If the reduced price of a shirt piece is ₹245.10, find its original price.
- 8) An alloy contains 32% copper, 40% zinc and the rest nickel. Find in grams the quantity of each of the contents in 1 kg of alloy.
- 9) In an entrance examination 80% of the candidates passed and 60 failed. How many candidates appeared?

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Profit and Loss

- 10) Fill up the suitable blanks in the table:

	CP (₹)	SP (₹)	Loss (₹)	Loss %	Profit (₹)	Profit %
(i)	900	.....			.....	15
(ii)	1700	1853			.....	.....
(iii)	2260	.....	226	.....	

- 11) An article was bought for ₹450 and sold for ₹486. Find the gain percent.
- 12) A bicycle was bought for ₹560 and sold for ₹546. Find the loss percent.
- 13) A shopkeeper gains 7% by selling an article for ₹ 3852. If he sells it for ₹ 4050, find his gain percent.
- 14) Mohan purchased a bike and spent ₹400 for its repairs. He sold the bike for ₹5800 and made a profit of 16%. At what price did he purchase the bike?
- 15) Amit sells a scooter for ₹18000, thereby suffered a loss of 10%. For what price should he have sold to get 9% profit?
- 16) Rahul buys a phone for ₹ 8000 and sells it at a loss of 10%. He also buys a wrist watch for ₹ 4500 and sells it at a profit of 10%. Calculate his total profit% or loss %.

Simple Interest

- 17) Complete the following table:

	Principal ₹	Time Period	Rate %	Simple Interest ₹	Amount ₹
(i)	225	6 years	9 %
(ii)	513.60	2.5 years	4.5 %
(iii)	864	$2\frac{1}{2}$ years	$4\frac{1}{2}$ %

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- 18) In how many years will a sum of money double itself if the rate of interest is 20 % p.a.?
- 19) A lent ₹ 5000 to B for 2 years and ₹ 3000 to C for 4 years on simple interest at the same rate of interest and received ₹ 2200 in all from both of them as interest. What is the rate of interest per annum?
- 20) The simple interest on a certain sum at 4% p.a. for 4 years is ₹80. Find the sum.
- 21) Find the amount received for depositing ₹300 for 2 years at 11 % p.a.
- 22) Sara borrows ₹25,000 at 8% p.a. for 3 years. At the end of 3 years, she pays ₹19,000 and a video camera. What is the value of the video camera?

Geometrical Constructions

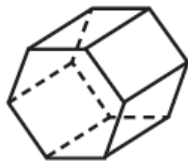
- 23) Draw a line segment AB of length 5.4 cm. Take a point P outside the line. Construct a line parallel to AB passing through the point P.
- 24) Draw a line segment MN of length 6 cm. Take a point L outside the line. Construct a line parallel to OP passing through the point L.
- 25) Is it possible to form a triangle with the following measures?
 - (i) 8 cm, 6 cm, 15 cm
 - (ii) 25° , 65° , 90°
 - (iii) 5.6 cm, 4.4 cm, 9 cm
 - (iv) 50° , 120° , 30°
- 26) Construct a $\triangle ABC$ in which $AB = 4.8$ cm, $BC = 5$ cm and $CA = 5.4$ cm.
- 27) Construct a $\triangle PQR$ in which $PQ = 4$ cm, $QR = 4.6$ cm and $\angle Q = 75^\circ$.
- 28) Construct a $\triangle ABC$ in which $BC = 5$ cm, $\angle B = 60^\circ$ and $\angle C = 45^\circ$.
- 29) Construct an equilateral $\triangle XYZ$ having each side of length 4.6 cm.
- 30) Construct an isosceles triangle ABC, having one of its equal sides $AB = 4.5$ cm and the vertical $\angle A = 75^\circ$.
- 31) Construct a right angled $\triangle LMN$ in which $MN = 5$ cm, $\angle M = 90^\circ$ and $LM = 4$ cm.
- 32) Construct a right angled $\triangle ABC$ in which $\angle B = 90^\circ$, $BC = 3.6$ cm and $CA = 5.4$ cm.

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3D Visualisation

- 33) Identify the following solids and write its faces, vertices and Edges

(i)

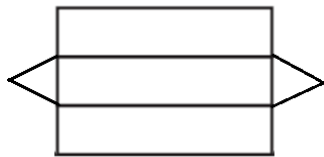


(ii)

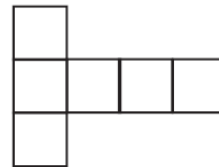


- 34) Identify the solids from the following given nets

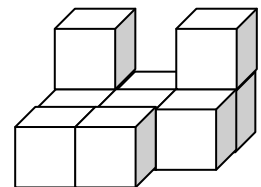
(i)



(ii)



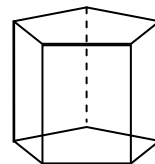
- 35) Draw the top view, front view and side view of the given figure:



- 36) Find the cross-section of the adjoining solid when it is sliced using:

(i) vertical cut

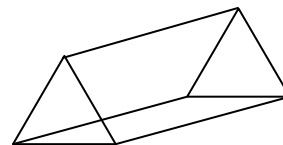
(ii) horizontal cut



- 37) Find the shape of the shadow of the adjoining solid shape when the source of light is in the following positions:

(i) front of the solid

(ii) top of the solid

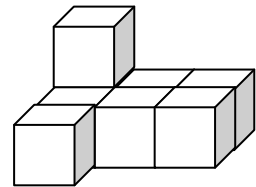


- 38) Draw a net of a following solids:

(i) triangular pyramid (ii) cube (iii) Cone

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- 39) Find the number of vertices of a polyhedron having 8 edges and 5 faces.
- 40) Find the number of faces of a polyhedron having 9 edges and 6 vertices.
- 41) Find the number of edges of a polyhedron having 14 vertices and 9 faces.
- 42) Name the different plane shapes needed to draw the nets of the following solids.
 (i) pentagonal prism
 (ii) hexagonal pyramid
- 43) Draw the top view, front view and side view of the given figure. Also estimate the minimum number of cubes required to be added to get a structure of a cuboid.



Bar graphs

- 44) Using the bar graph, choose the correct option in the questions given below:

(i) Which colour is the least common among the cars in the parking lot?

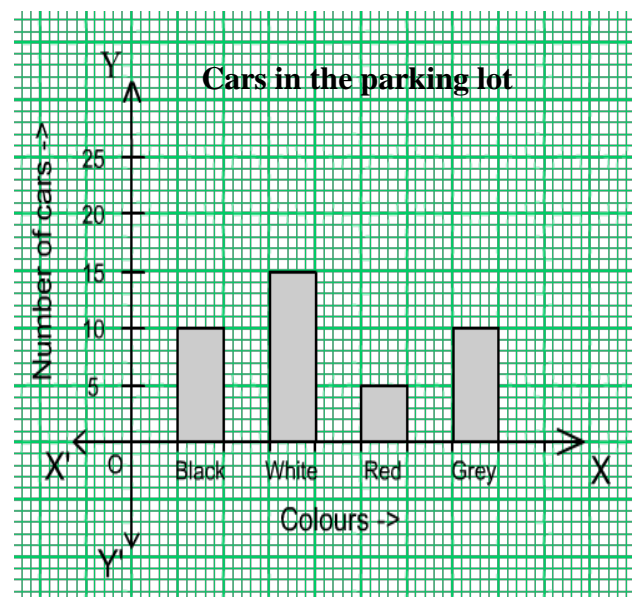
- a) Black b) White
 c) Red d) Grey

(ii) What is the colour of the cars parked equal in numbers?

- a) Red and Grey b) Black and White
 c) White and Red d) Black and Grey

(iii) The total number of cars in the parking lot is:

- a) 40 b) 35
 c) 20 d) 45



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- 45) The following data gives the average temperature during the months of March to September in Delhi.

Month	March	April	May	June	July	August	September
Temp	30°C	33°C	38°C	44°C	46°C	40°C	35°C

Draw a horizontal bar graph to represent the given data.

- 46) The number of girls and boys in the various clubs of a school are given below:

Name of the club	Debating	Hindi	Math	Music	Theatre
Number of girls	35	20	50	40	45
Number of boys	25	15	70	35	45

Draw a double bar graph for the above information.

- 47) The percentage of marks obtained by a student in different subjects are given below:

Subject	Hindi	Science	English	Mathematics	Social Studies
Percentage of marks obtained	35	60	15	75	40

Draw a bar graph representing the above data.

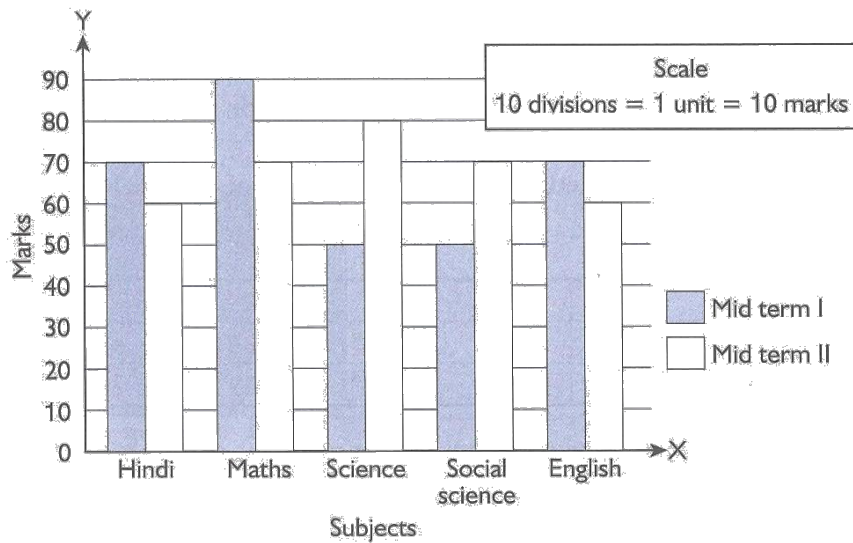
- 48) The following table gives the number of people of a locality watching news channel and entertainment channel on different days of a week.

Day	MON	TUE	WED	THU	FRI	SAT	SUN
News	600	450	400	300	350	300	200
Entertainment	200	250	300	400	500	650	700

Draw a double bar graph for the given data.

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- 49) The following double bar graph shows Payal's marks in two mid-term examinations. Read the graph and answer the questions.



- (i) In which mid-term, Payal scored higher marks in Social science?
- (ii) In which subjects did Payal improve upon in the second mid-term exam?
- (iii) Find the percentage decrease of marks scored in English from mid-term I to II.

- 50) The bar graph given below shows the number of one day cricket matches played by different countries during a certain year. Read the bar graph and answer the following questions.

