

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

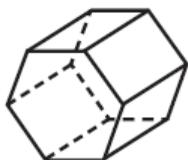
- 23) Draw a line segment AB of length 5.4 cm. Take a point P outside the line. Construct a line parallel to AB passing through the point P.
- 24) Draw a line segment MN of length 6 cm. Take a point L outside the line. Construct a line parallel to OP passing through the point L.
- 25) Is it possible 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)

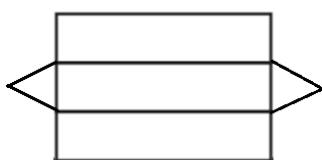


(ii)

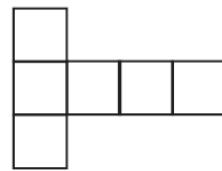


34) Identify the solids from the following given nets

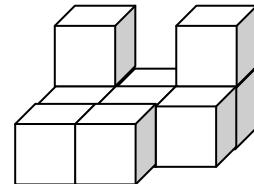
(i)



(ii)

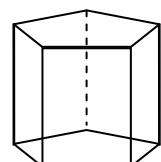


35) Draw the top view, front view and side view of the given figure:



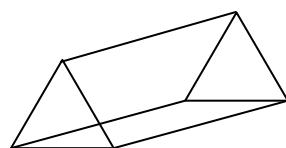
36) Find the cross-section of the adjoining solid when it is sliced using:

(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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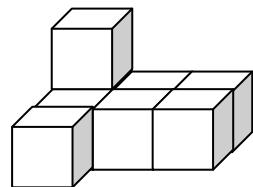
39) Find the number of vertices of a polyhedron having 8 edges and 5 faces.

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?

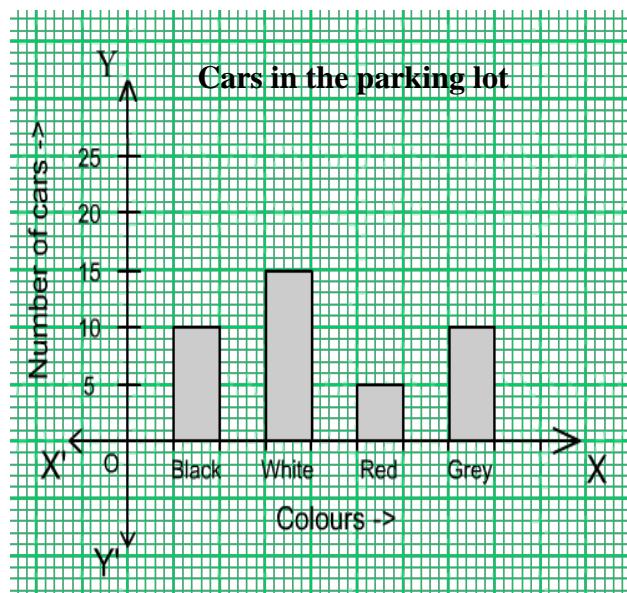
a) Black b) White
 c) Red d) Grey

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

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

(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.

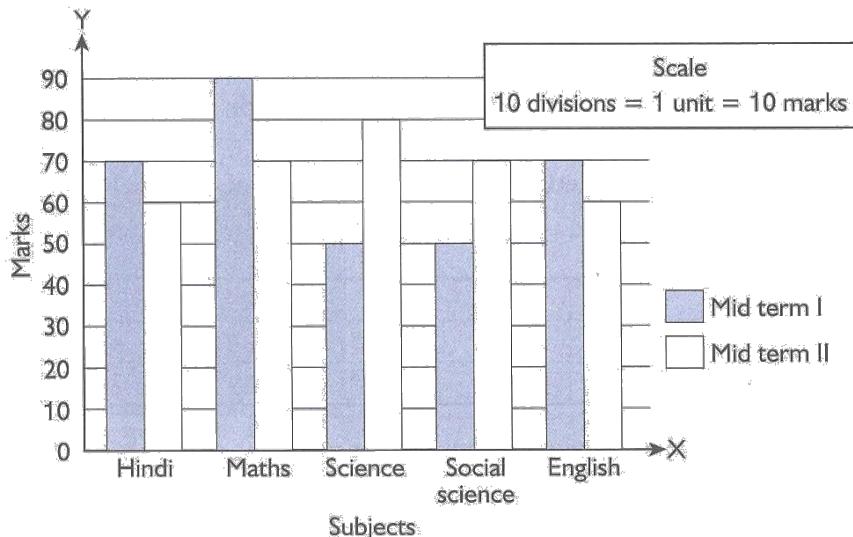
48) The following table gives the number of people of a locality watching news channel and entertainment channel on different days of a week.

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.

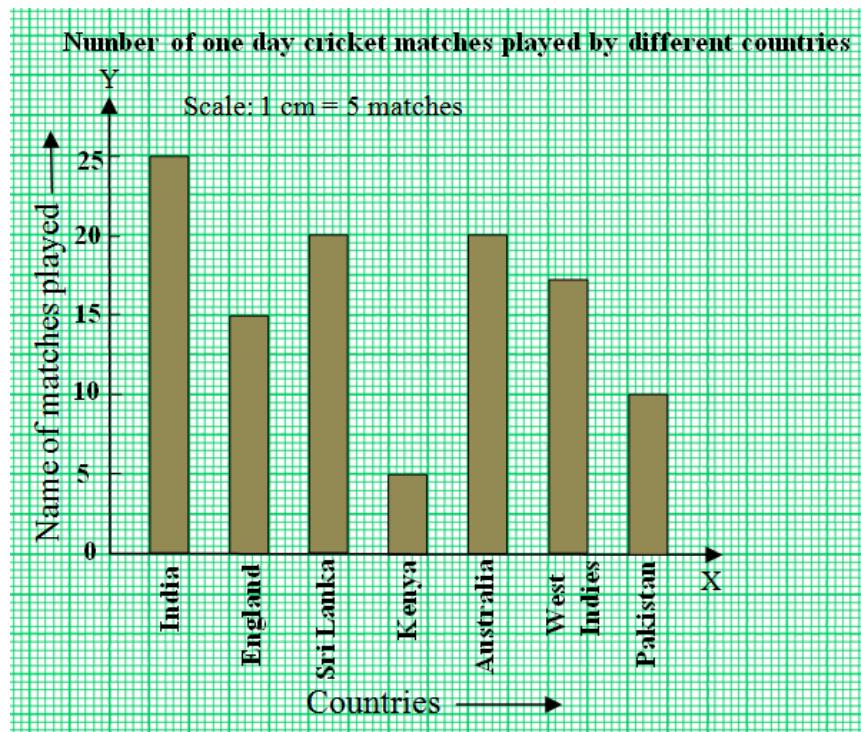
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49) The following double bar graph shows Payal's marks in two mid-term examinations. Read the graph and answer the questions.



- (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.





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- i. Which two countries played the same number of matches?
- ii. How many more matches did Australia play than Pakistan?
- iii. How many matches did Asian countries (India, Sri Lanka and Pakistan) play?