



# Yuvashakti Model School

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RAMA VIHAR, DELHI - 110081

(Affiliated to CBSE and Recognised by Directorate of Education)

## WINTER HOLIDAYS HOME WORK

*Here's wishing you all the joys of the season and the happiness all throughout the upcoming year.*

### **SOCIAL SCIENCE**

1. Revise and learn all the chapters coming in annual exam.
2. Do worksheets given on page no.: - 9, 10, 13, 15, 21, 22, 25, 32.
3. Write important events of the Nationalist Movement on A3 size sheet. (Hint: Ch-9 The Nationalist Movement page no.: - 108)

### **SANSKRIT**

- Learn chapter 9 to 14
- Complete the remaining assignments of holidays homework book .

### **SCIENCE**

- Learn chapter light and friction
- Complete your science notebook

### **HINDI**

- पाठ-13 से 18 याद करें।
- पत्र व अनुच्छेद याद करें।
- Complete assignment book

**COMPUTER:** Learn the Book Work of Chapter- 5, 6 and 7

### **ENGLISH**

- English MCB. Revise all copy work
- Grammar Revise chapter 20, 21 , Formal letter and Story writing.
- Learn the rules of Pat, Present and Future Tense.
- Rules of Active and Passive voice
- Do Assignment of given pages.

## MATHS

1. Make this model based on probability. Click on probability model.

[Probability model](#)

2. Revise all syllabus done till now.

3. Do the following worksheet.



# WORKSHEET 13

## Time, Distance and Work

DATE : .....

### 1. Choose the correct option. (MCQ's)

- (i) A train of 150 m long is moving at 45 km/h. The time taken by the train to cross a 500 m long platform is  
 (a) 40 minutes      (b) 12 seconds      (c) 52 seconds      (d) 40 seconds
- (ii) The speed of 45 m/sec when converted into km/h is  
 (a) 152 km/h      (b) 162 km/h      (c) 172 km/h      (d) 27 km/h
- (iii) A man takes 10 hours to travel 40 kilometres. How long will he take to travel 72 kilometres ?  
 (a) 20 hours      (b) 18 hours      (c) 24 hours      (d) 30 hours

### 2. Fill in the blanks :

- (i) Speed  $\times$  Time = .....
- (ii) Distance = Time  $\times$  .....
- (iii) Time taken =  $\frac{\text{Distance}}{\text{Speed}}$
- (iv) 60 km/h means a distance of 60 km covered in .....
- (v) 3 km/h means ..... km is covered in one hour.

3. A man covers 4 km in 1 hour. What is his speed ?

4. An autocyce covers 600 metres in 1 minute. Find its speed in m/sec.

5. A car is moving at 45 km/h. How far will it go in 45 minutes ?

6. Convert 1 km/h into m/sec.

### 7. Express :

(i) 90 km/h into metre per second.

(ii) 180 km/h into metre per second.

(iii) 30 m/sec. into km/h.

(iv) 18 km/h into m/sec.

8. Nikhil runs a 100 m race in 12 seconds. Find his speed in km/h.

9. In a cycle race, Rohan runs at 18 km/h. How long will he take to cover 800 m ?

10.  $\frac{4}{5}$  of a cistern is filled in 1 hour. How long will it take to fill the cistern ?

Teacher's Signature : .....





# WORKSHEET 11

DATE : .....

## Profit, Loss and Discount

### 1. Choose the correct option. (MCQ's)

- (i) A man buys two bicycles of the same type. He sells one of them at a profit of 20% and the other at a loss of 5%. If the difference in selling prices is ₹ 700, the cost price of each bicycle is  
 (a) ₹ 3,600                      (b) ₹ 2,800                      (c) ₹ 4,500                      (d) ₹ 2,000
- (ii) If the cost price of 12 apples is equal to the selling price of 10 apples, then the profit percentage is  
 (a) 50%                      (b) 20%                      (c) 10%                      (d) 80%
- (iii) If the marked price of a calculator is ₹ 800 and its net price is ₹ 600, the discount percent is  
 (a) 30%                      (b) 20%                      (c) 25%                      (d) 40%
- (iv) Complete the following formula.  
 Discount = M.P. - .....  
 (a) Cost price                      (b) Selling Price                      (c) Loss                      (d) Gain
- (v)  $S.P. = \frac{(100 + \dots)}{100} \times C.P.$   
 (a) Gain%                      (b) Loss%                      (c) Cost price                      (d) Discount

2. By selling 140 hens, Ramesh lost the S.P. of 10 hens. Find his loss percent.

3. The selling price of 10 tables is equal to the cost price of 8 tables. Find the loss or profit per cent.

### 4. Fill in the blanks :

- (i) Discount = M.P. - .....
- (ii) Rate of Discount = Discount% =  $\frac{\dots}{M.P.} \times 100$
- (iii)  $S.P. = M.P. \left( \frac{\dots - \text{Discount}\%}{100} \right)$
- (iv)  $M.P. = \frac{100 \times S.P.}{(100 - \dots)}$

5. What price should a trader mark on an article that costs him ₹ 918 to gain 20% after allowing a discount of 15% ?

Teacher's Signature : .....



# WORKSHEET 7

DATE : .....

## Cubes and Cube-roots

1. Which of the following are the cubes of even numbers :

64, 927, 512, 127, 2650, 1000, 4048

2. Which of the following are the cubes of odd numbers :

111, 343, 13524, 1331, 2744

3. Which of the following are the cubes of negative numbers :

- 125, 216, - 343, 681472

4. Find the cubes of :

(i) 5

(ii) -7

(iii) 13

(iv) -8

(v) 17

(vi) 0.03

5. Find the cube roots of the following :

(i) 343

(ii) -1331

(iii) 2744

(iv) -1728

(v) 5832

(vi) 9261

6. Find the cube roots of :

(i) 2.744

(ii) 9.261

(iii) 4.096

(iv) 54.872

(v) 262.144

(vi) 4.913

7. Find the value of :

(i)  $\sqrt[3]{\frac{512}{6859}}$

(ii)  $\sqrt[3]{-4\frac{12}{125}}$

(iii)  $\sqrt{\frac{-4096}{512}}$

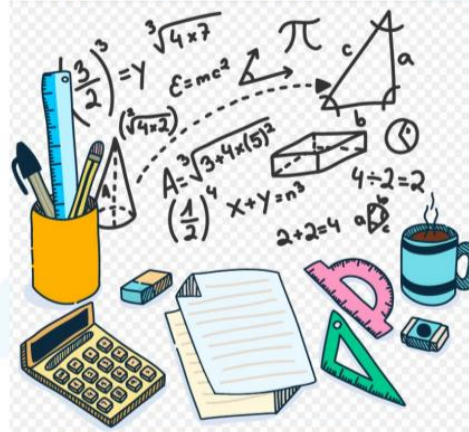
8. Find the value of  $\sqrt[3]{448} \times \sqrt[3]{392}$ .

Teacher's Signature : .....



## Probability Worksheets Grade 8

1. What is the total sample space if a consonant is to be picked from a set of english alphabets?
2. The probability of getting the same number, when two dice are rolled is \_\_\_\_\_.
3. John's probability of winning the game is 60%. What is the probability of John not winning the game?  
(a) 20%      (b) 40%      (c) 60%      (d) 80%



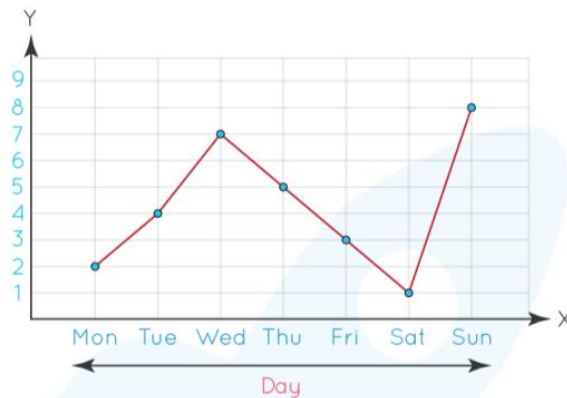
4. When two dice are rolled what is the probability of getting a sum of 12?
5. The probability of picking a number 9 from a pack of cards is \_\_\_\_\_.
6. A bag had 4 red balls, 6 red balls, and 7 blue balls. When a ball is picked from this bag, what is the probability of it being a red or a blue ball?  
(a)  $\frac{9}{17}$       (b)  $\frac{11}{17}$       (c)  $\frac{12}{17}$       (d)  $\frac{14}{17}$
7. In a class there are 22 students who like tea, and 18 students like coffee. What is the probability that a student likes tea?
8. In a hotel there are 8 air conditioned rooms and 20 ordinary rooms. If a guest wishes to book an airconditioned room, what is the probability that he gets the air conditioned room?

9. In an entrance exam only three students are selected for every 100 students who appear for the examination. What is the percentage probability of success in the entrance?
10. Peter hits 2 shots right for every 5 shots. What is the probability of peter winning the game?



## LINE GRAPH WORKSHEET I

Following graph shows the number of kilograms of grapes sold by a vendor on each day of the week:

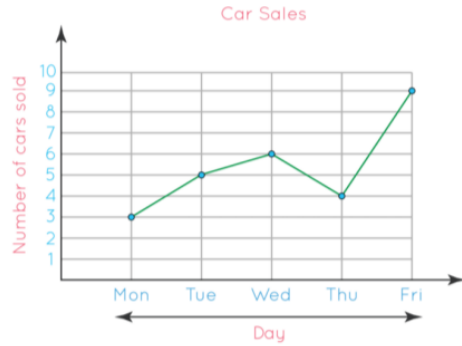


Answer the following questions based on the information given above.

- 1) How many Grapes sold on Thursday Friday combined?
- 2) Which day of the week grapes were sold the highest?
- 3) How many grapes were sold on Monday, Tuesday, and Sunday?
- 4) If the previous week, twice the grapes were sold, what is the number of grapes sold in the previous week?
- 5) State whether the given statement is true or false about the information given above:  
On Wednesday, most grapes were sold.



David works in a car showroom. He recorded the number of cars sold each day for a week. Study the following graph and answer the questions.



- 6) Find out the total number of cars sold in that week.
- 7) Find out the number of cars that were sold on Monday, Tuesday, and Wednesday together.
- 8) On which day were the minimum number of cars were sold?
- 9) Match the following:

3/6



Days	Number of cars sold
a) Monday	i. 9
b) Tuesday	ii. 6
c) Wednesday	iii. 5
d) Thursday	iv. 4
e) Friday	v. 3

- 10) How many cars were sold on the second day of the week?