3i Infotech Previous Paper Questions

1)In	june	а	baseball	team	that	played	60	games	had	won	30%	of	its	game	played.	Afte	r a
pher	nomen	al	winning s	streak	this to	eam rais	sed	its avera	age t	o 50%	.Hov	v m	any	game	s must	the te	am
have	won	in a	a row to a	ttain th	nis av	erage?											

A. 12 B. 20 C. 24 D. 30 (Ans. C)

2.M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift/

A. D/(M-3) B. MD/3 C. M/(D-3) D. 3D/(M2-3M) (Ans. D)

3. A company contracts to paint 3 houses. Mr.Brown can paint a house in 6 days while Mr.Black would take 8 days and Mr.Blue 12 days. After 8 days Mr.Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr.Blue to complete the contract?

A. 7 B. 8 C. 11 D. 12 (Ans.C)

4.2 hours after a freight train leaves Delhi a passenger train leaves the same station travelling in the same direction at an average speed of 16 km/hr. After travelling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

A. 30 B. 40 C.58 D. 60 (Ans. B)

5.If 9x-3y=12 and 3x-5y=7 then 6x-2y=?

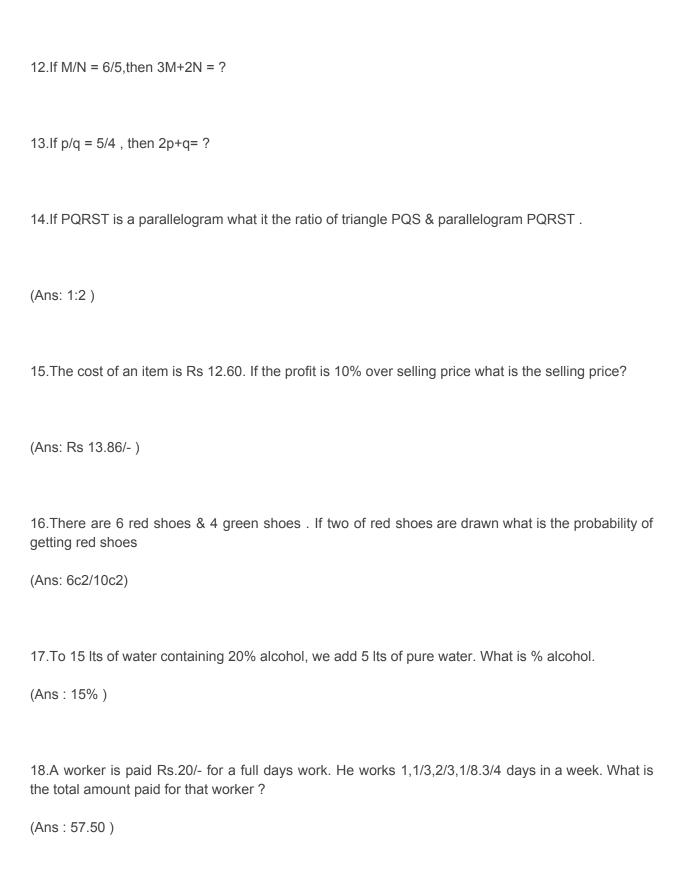
A.-5 B. 4 C. 2 D. 8 (Ans. D) 6. There are 5 red shoes, 4 green shoes. If one draw randomly a shoe what is the probability of getting a red shoe (Ans 5c1/9c1) 7. What is the selling price of a car? If the cost of the car is Rs.60 and a profit of 10% over selling price is earned (Ans: Rs 66/-) 8.1/3 of girls, 1/2 of boys go to canteen . What factor and total number of classmates go to canteen. 9. The price of a product is reduced by 30%. By what percentage should it be increased to make it 100% (Ans: 42.857%) 10. There is a square of side 6cm. A circle is inscribed inside the square. Find the ratio of the area of

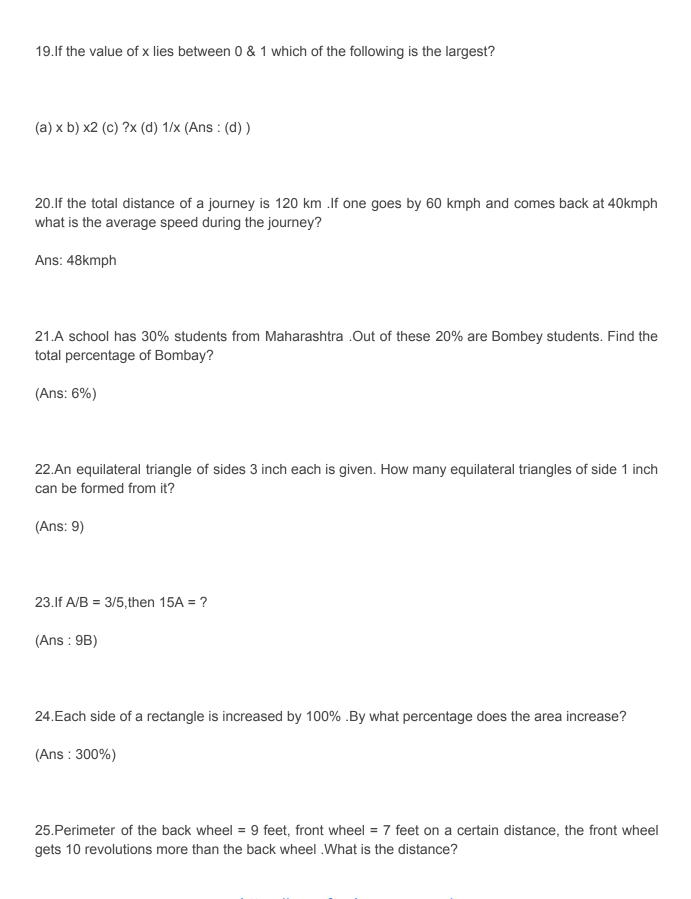
(Ans. 11/14)

11.There are two candles of equal lengths and of different thickness. The thicker one lasts of six hours. The thinner 2 hours less than the thicker one. Ramesh lights the two candles at the same time. When he went to bed he saw the thicker one is twice the length of the thinner one. How long ago did Ramesh light the two candles .

Ans: 3 hours.

circle to square.





Ans: 315 feet 26.Perimeter of front wheel =30, back wheel = 20. If front wheel revolves 240 times. How many revolutions will the back wheel take? Ans: 360 times 27.20% of a 6 litre solution and 60% of 4 litre solution are mixed. What percentage of the mixture of solution (Ans: 36%) 28. City A's population is 68000, decreasing at a rate of 80 people per year. City B having population 42000 is increasing at a rate of 120 people per year. In how many years both the cities will have same population? (Ans: 130 years) 29.Two cars are 15 kms apart. One is turning at a speed of 50kmph and the other at 40kmph . How much time will it take for the two cars to meet? (Ans: 3/2 hours) 30.A person wants to buy 3 paise and 5 paise stamps costing exactly one rupee. If he buys which of the following number of stamps he won't able to buy 3 paise stamps. Ans: 9 31. There are 12 boys and 15 girls, How many different dancing groups can be formed with 2 boys and 3 girls.

32. Which of the following fractions is less than 1/3
(a) 22/62 (b) 15/46 (c) 2/3 (d) 1 (Ans: (b))
33. There are two circles, one circle is inscribed and another circle is circumscribed over a square. What is the ratio of area of inner to outer circle? Ans: 1:2
34. Three types of tea the a,b,c costs Rs. 95/kg,100/kg and70/kg respectively. How many kgs of each should be blended to produce 100 kg of mixture worth Rs. 90/kg, given that the quntities of band c are equal
a)70,15,15 b)50,25,25 c)60,20,20 d)40,30,30 (Ans. (b))
35.In a class, except 18 all are above 50 years.15 are below 50 years of age. How many people are there
(a) 30 (b) 33 (c) 36 (d) none of these. (Ans. (d))
36.If a boat is moving in upstream with velocity of 14 km/hr and goes downstream with a velocity of 40 km/hr, then what is the speed of the stream ?
(a) 13 km/hr (b) 26 km/hr (c) 34 km/hr (d) none of these (Ans. A)
37.Find the value of (0.75 * 0.75 * 0.75 - 0.001) / (0.75 * 0.75 - 0.075 + 0.01)

(a) 0.845 (b) 1.908 (c) 2.312 (d) 0.001 (Ans. A)

38.A can have a piece of work done in 8 days, B can work three times faster than the A, C can work five times faster than A. How many days will they take to do the work together?

(a) 3 days (b) 8/9 days (c) 4 days (d) can't say (Ans. B)

39.A car travels a certain distance taking 7 hrs in forward journey, during the return journey increased speed 12km/hr takes the times 5 hrs.What is the distancetravelled

(a) 210 kms (b) 30 kms (c) 20 kms (c) none of these (Ans. B)

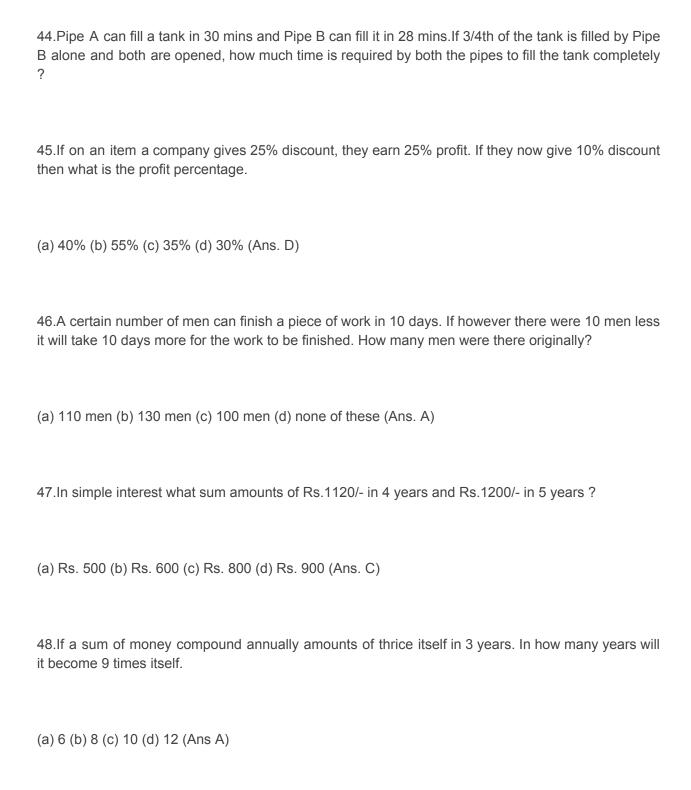
40.Instead of multiplying a number by 7, the number is divided by 7. What is the percentage of error obtained?

41.Find (7x + 4y) / (x-2y) if x/2y = 3/2?

(a) 6 (b) 8 (c) 7 (d) data insufficient (Ans. C)

42.A man buys 12 Its of liquid which contains 20% of the liquid and the rest is water. He then mixes it with 10 Its of another mixture with 30% of liquid. What is the % of water in the new mixture?

43.If a man buys 1 It of milk for Rs.12 and mixes it with 20% water and sells it for Rs.15, then what is the percentage of gain?

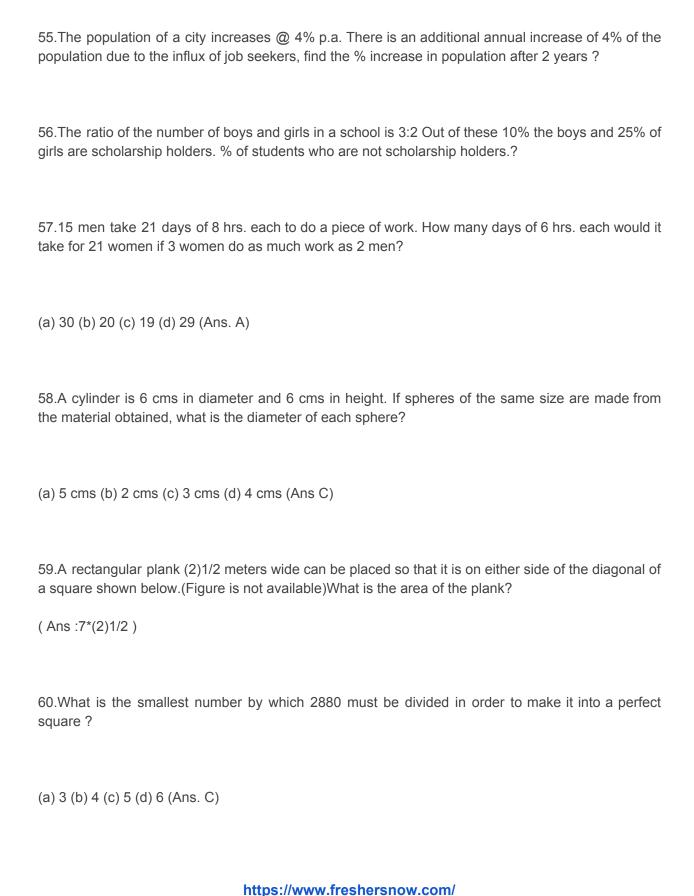


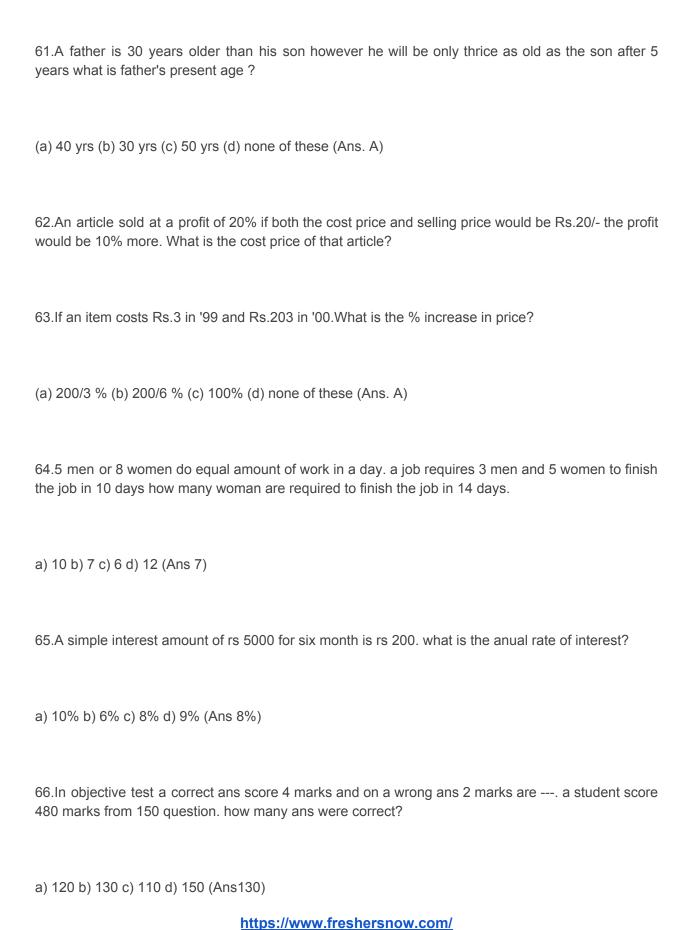
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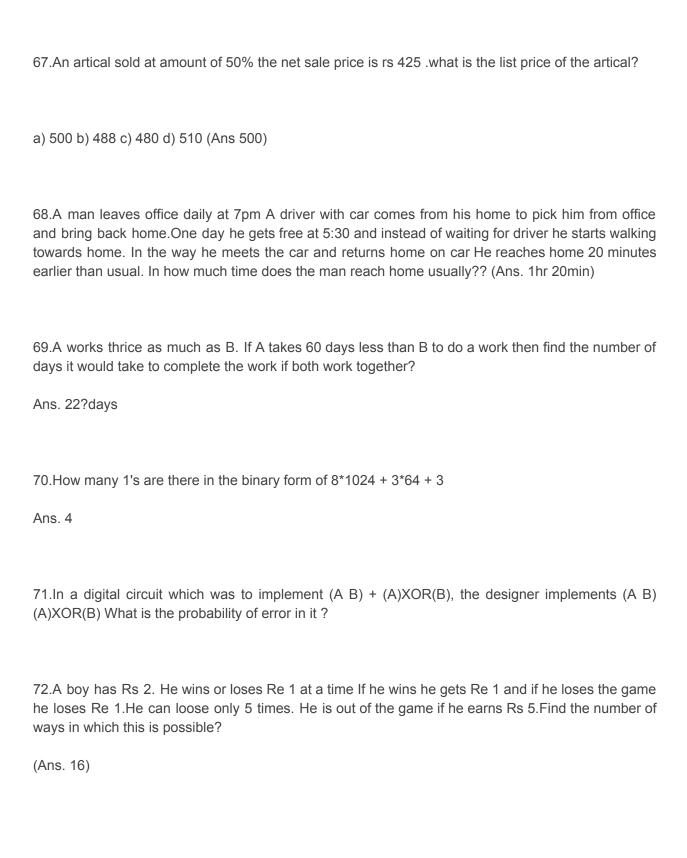
49.Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower

train observes the 15 seconds elapse before the faster train completely passes by him.

50.What is the length of faster train?
(a) 100m (b) 75m (c) 120m (d) 50m (Ans B)
51. How many mashes are there in 1 squrare meter of wire gauge if each mesh is 8mm long and 5mm wide ?
(a) 2500 (b) 25000 (c) 250 (d) 250000 (Ans B)
52.x% of y is y% of ?
(a) x/y (b) 2y (c) x (d) can't be determined Ans. C
53. The price of sugar increases by 20%, by what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before ?
(a) 15% (b) 16.66% (c) 12% (d) 9% (Ans B)
54.A man spends half of his salary on household expenses, 1/4th for rent, 1/5th for travel expenses, the man deposits the rest in a bank. If his monthly deposits in the bank amount 50, what is his monthly salary?
(a) Rs.500 (b) Rs.1500 (c) Rs.1000 (d) Rs. 900 (Ans C)







73.If there are 1024*1280 pixels on a screen and each pixel can have around 16 million colors. Find the memory required for this?
(Ans. 4MB)
74.On a particular day A and B decide that they would either speak the truth or will lie. C asks A whether he is speaking truth or lying? He answers and B listens to what he said. C then asks B what A has said B says "A says that he is a liar" What is B speaking?
(a) Truth (b) Lie (c) Truth when A lies (d) Cannot be determined
Ans. (b)
75.In a class composed of x girls and y boys what part of the class is composed of girls
A. $y/(x + y)$
B. x/xy
C. $x/(x + y)$
D. y/xy
(Ans.C)