PLK BRILLIANTS

INSTRUCTIONS TO EASILY GET 5 MARKS IN SPECIAL GRAPH QUESTIONS IN CLASS 10TH MATHS GRAPH

KEY WORD FOR EASY TO REMEMBER DIRECT VARIATION PROBLEMS:

Varshika goes to the cloth shop in 1/2 an hour by bus or two wheeler.

Solution methods for direct variation problems:

S.No	Question number in our book	Table						Scale	Answers to the questions asked at the end of the questions.
1	Example 3.47	Diameter (x) cm	1	2	3	4	5	X axis 1 cm = 1 unit Y axis 1 cm = 1 unit	If x = 6 then y =1
		Perimeter (y) cm	3.1	6.2	9.3	12.4	15.5		
2	Exercise 3.15 - (1)	Marked price (x)	1000	2000	3000	4000	5000	In X axis 1 cm = Rs.1000 In y axis 1 cm = Rs.500	If y = 3250 then x = 6500 If x = 2500 then y = 1250
		Discount (y)	500	1000	1500	2000	2500		
3	Exercise 3.15 - (3)	x	2	4	6	8	10	In X-axis 1 cm = 2 units In Y-axis 1 cm = 1 unit	If x = 9 then y = 4.5 If y = 7.5 then x = 15
		y	1	2	3	4	5		
4	Example 3.48	Time taken x (hours)	1	2	3	4	5	In X-axis 1 cm = 1 hr. In Y-axis 1 cm = 50 kms	If $x = 1\frac{1}{2}$ then y = 75 If y= 300 then x = 6 Constant of variation $k = \frac{50}{1} = \frac{100}{2} = 50$
		Distance y (kms)	50	100	150	200	250		
5	Exercise 3.15 - (6)	Time in hours (x)	4	8	12		24	In X-axis 1 cm = 4 hrs. In Y-axis 1 cm = Rs.60	If x = 6 then y = 90 If y = 150 then x = 10
		Amount Rs. (y)	60	120	180		360		

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Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com

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KEY WORD FOR EASY TO REMEMBER DIRECT VARIATION PROBLEMS:

Nishant scored 24 in school and went to work for a pipe company.

Solution methods for Indirect variation problems:

S.No	Question number in our book	Table						Scale	Answers to the questions asked at the end of the questions.
6	Example 3.50	Speed x (km/hr)	12	6	4	3	2	In X-axis 1 cm = 1 km In Y-axis 1 cm = 1hr	If x = 2.4 then y = 5
		Time y (hrs)	1	2	3	4	6		
8	Exercise 3.15 - (2)	x	1	2	3	4	6 8	In X-axis 1 cm = 1 unit In Y-axis 1 cm = 2 units	If x = 3 then y = 8 If y = 6 then x = 4
		y	24	12	8	6	4 3		
7	Exercise 3.15 - (5)	No. Of participants (x)		2	4	6	8 10	In X-axis 1 cm = 2 members In Y-axis 1 cm = Rs.10	Constant of variation k = xy = 2x180 = 360 If x = 12 then y= 30
		Amount for each participant in Rs. (y)		180	90	60	45 36		
9	Exercise 3.15 - (4)	No. Of pipes (x)	2	3		6	9	In X-axis 1 cm = 1 pipe In Y-axis 1 cm = 10 min.	If x = 5 then y = 18 If y = 9 then x = 10
		Time taken (min) y	45	30		15	10		
10	Example 3.49	No. Of workers (x)	40	50	60	75		In X-axis 1 cm = 10 workers In Y-axis 1 cm = 10 days	As x increases, y decreases, thus inverse variation. If x = 120 then y = 50 If y = 200 then x = 30
		Number of days (y)	150	120	100	80			

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