

I'm not robot!

11. A varies directly as x^2 and $x = 2$ when $y = 8$. Find the constant of variation.

12. A varies directly as x^2 . If $x = 3$ when $y = 12$, find y when $x = 4$.

13. There are about 2 colonies of 100 grasshoppers each in a 100-acre field. How many grasshoppers are there in the field?

14. The resistance (R) of a wire varies directly with its length (L). A 100-foot wire has a resistance of 10 ohms. What is the resistance of a 200-foot wire?

15. A varies directly as x^2 . Find the constant of variation if $x = 2$ when $y = 8$.

16. There are about 40 colonies of 100 grasshoppers each in a 100-acre field. How many grasshoppers are there in the field?

17. A varies directly as x^2 . Find the constant of variation if $x = 3$ when $y = 12$.

18. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

19. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

20. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

21. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

22. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

23. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

24. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

25. A varies directly as x^2 . Find y when $x = 4$ if $x = 2$ when $y = 8$.

Algebra 2 Worksheet

Variations: Direct, Inverse, and Joint

Name _____

Formulas:

Direct Variation y varies as x y = kx	Inverse Variation y varies as x y = k/x	Joint Variation y varies as x and z y = kxz
--	--	--

Translate each statement into a formula. Use k as the constant of variation.

Class:

- V varies jointly as B and H
- P varies directly as the square of V and inversely as R

Practice:

- The mass, M, of a cement block varies jointly as the length, L, width, W, and thickness, T, of the block.
- The volume, V, of a gas varies directly as the temperature, T, and inversely as the pressure, P.

Homework:

- E varies jointly as M and the square of V.
- The distance, D, that a free-falling object falls varies directly as the square of the time, T, that it falls.

Solve each of the following:

Class:

- Find y when $x = -6$, if y varies directly as x and $y = 8$ when $x = 2$.
- Find y when $x = 3$, if y varies inversely as x and $x = 4$, when $y = 16$.

Practice:

- Find y when $x = 4$ and $z = 15$, if y varies jointly as x and z when $z = 8$, $y = 80$, and $z = 10$.
- Find y when $x = 1.5$, if y varies directly as x and $y = -16$ when $x = 6$.

Homework:

- Find y when $x = 4$, if y varies directly as x and $y = 7$ when $x = 1.5$.
- Find y when $x = 12$ and $z = 2$, if y varies jointly as x and z and $y = 24$ when $z = 2$ and $x = 1$.

Solve the following word problems:

Algebra 2 - Lesson 10A Worksheet
Direct, Inverse, and Joint Variation

1. A varies directly as x^2 . Find y when $x = 2$ and $y = 8$.

2. A varies directly as x^2 . Find y when $x = 3$ and $y = 12$.

3. A varies directly as x^2 . Find y when $x = 4$ and $y = 16$.

4. A varies directly as x^2 . Find y when $x = 5$ and $y = 25$.

5. A varies directly as x^2 . Find y when $x = 6$ and $y = 36$.

6. A varies directly as x^2 . Find y when $x = 7$ and $y = 49$.

7. A varies directly as x^2 . Find y when $x = 8$ and $y = 64$.

8. A varies directly as x^2 . Find y when $x = 9$ and $y = 81$.

9. A varies directly as x^2 . Find y when $x = 10$ and $y = 100$.

10. A varies directly as x^2 . Find y when $x = 11$ and $y = 121$.

11. A varies directly as x^2 . Find y when $x = 12$ and $y = 144$.

12. A varies directly as x^2 . Find y when $x = 13$ and $y = 169$.

13. A varies directly as x^2 . Find y when $x = 14$ and $y = 196$.

14. A varies directly as x^2 . Find y when $x = 15$ and $y = 225$.

15. A varies directly as x^2 . Find y when $x = 16$ and $y = 256$.

16. A varies directly as x^2 . Find y when $x = 17$ and $y = 289$.

17. A varies directly as x^2 . Find y when $x = 18$ and $y = 324$.

18. A varies directly as x^2 . Find y when $x = 19$ and $y = 361$.

19. A varies directly as x^2 . Find y when $x = 20$ and $y = 400$.

20. A varies directly as x^2 . Find y when $x = 21$ and $y = 441$.

21. A varies directly as x^2 . Find y when $x = 22$ and $y = 484$.

22. A varies directly as x^2 . Find y when $x = 23$ and $y = 529$.

23. A varies directly as x^2 . Find y when $x = 24$ and $y = 576$.

24. A varies directly as x^2 . Find y when $x = 25$ and $y = 625$.

25. A varies directly as x^2 . Find y when $x = 26$ and $y = 676$.

26. A varies directly as x^2 . Find y when $x = 27$ and $y = 729$.

27. A varies directly as x^2 . Find y when $x = 28$ and $y = 784$.

28. A varies directly as x^2 . Find y when $x = 29$ and $y = 841$.

29. A varies directly as x^2 . Find y when $x = 30$ and $y = 900$.

30. A varies directly as x^2 . Find y when $x = 31$ and $y = 961$.

31. A varies directly as x^2 . Find y when $x = 32$ and $y = 1024$.

32. A varies directly as x^2 . Find y when $x = 33$ and $y = 1089$.

33. A varies directly as x^2 . Find y when $x = 34$ and $y = 1156$.

34. A varies directly as x^2 . Find y when $x = 35$ and $y = 1225$.

35. A varies directly as x^2 . Find y when $x = 36$ and $y = 1296$.

36. A varies directly as x^2 . Find y when $x = 37$ and $y = 1369$.

37. A varies directly as x^2 . Find y when $x = 38$ and $y = 1444$.

38. A varies directly as x^2 . Find y when $x = 39$ and $y = 1521$.

39. A varies directly as x^2 . Find y when $x = 40$ and $y = 1600$.

40. A varies directly as x^2 . Find y when $x = 41$ and $y = 1681$.

41. A varies directly as x^2 . Find y when $x = 42$ and $y = 1764$.

42. A varies directly as x^2 . Find y when $x = 43$ and $y = 1849$.

43. A varies directly as x^2 . Find y when $x = 44$ and $y = 1936$.

44. A varies directly as x^2 . Find y when $x = 45$ and $y = 2025$.

45. A varies directly as x^2 . Find y when $x = 46$ and $y = 2116$.

46. A varies directly as x^2 . Find y when $x = 47$ and $y = 2209$.

47. A varies directly as x^2 . Find y when $x = 48$ and $y = 2304$.

48. A varies directly as x^2 . Find y when $x = 49$ and $y = 2401$.

49. A varies directly as x^2 . Find y when $x = 50$ and $y = 2500$.

50. A varies directly as x^2 . Find y when $x = 51$ and $y = 2601$.

51. A varies directly as x^2 . Find y when $x = 52$ and $y = 2704$.

52. A varies directly as x^2 . Find y when $x = 53$ and $y = 2809$.

53. A varies directly as x^2 . Find y when $x = 54$ and $y = 2916$.

54. A varies directly as x^2 . Find y when $x = 55$ and $y = 3025$.

55. A varies directly as x^2 . Find y when $x = 56$ and $y = 3136$.

56. A varies directly as x^2 . Find y when $x = 57$ and $y = 3249$.

57. A varies directly as x^2 . Find y when $x = 58$ and $y = 3364$.

58. A varies directly as x^2 . Find y when $x = 59$ and $y = 3481$.

59. A varies directly as x^2 . Find y when $x = 60$ and $y = 3600$.

60. A varies directly as x^2 . Find y when $x = 61$ and $y = 3721$.

61. A varies directly as x^2 . Find y when $x = 62$ and $y = 3844$.

62. A varies directly as x^2 . Find y when $x = 63$ and $y = 3969$.

63. A varies directly as x^2 . Find y when $x = 64$ and $y = 4096$.

64. A varies directly as x^2 . Find y when $x = 65$ and $y = 4225$.

65. A varies directly as x^2 . Find y when $x = 66$ and $y = 4356$.

66. A varies directly as x^2 . Find y when $x = 67$ and $y = 4489$.

67. A varies directly as x^2 . Find y when $x = 68$ and $y = 4624$.

68. A varies directly as x^2 . Find y when $x = 69$ and $y = 4761$.

69. A varies directly as x^2 . Find y when $x = 70$ and $y = 4900$.

70. A varies directly as x^2 . Find y when $x = 71$ and $y = 5041$.

71. A varies directly as x^2 . Find y when $x = 72$ and $y = 5184$.

72. A varies directly as x^2 . Find y when $x = 73$ and $y = 5329$.

73. A varies directly as x^2 . Find y when $x = 74$ and $y = 5476$.

74. A varies directly as x^2 . Find y when $x = 75$ and $y = 5625$.

75. A varies directly as x^2 . Find y when $x = 76$ and $y = 5776$.

76. A varies directly as x^2 . Find y when $x = 77$ and $y = 5929$.

77. A varies directly as x^2 . Find y when $x = 78$ and $y = 6084$.

78. A varies directly as x^2 . Find y when $x = 79$ and $y = 6241$.

79. A varies directly as x^2 . Find y when $x = 80$ and $y = 6400$.

80. A varies directly as x^2 . Find y when $x = 81$ and $y = 6561$.

81. A varies directly as x^2 . Find y when $x = 82$ and $y = 6724$.

82. A varies directly as x^2 . Find y when $x = 83$ and $y = 6889$.

83. A varies directly as x^2 . Find y when $x = 84$ and $y = 7056$.

84. A varies directly as x^2 . Find y when $x = 85$ and $y = 7225$.

85. A varies directly as x^2 . Find y when $x = 86$ and $y = 7396$.

86. A varies directly as x^2 . Find y when $x = 87$ and $y = 7569$.

87. A varies directly as x^2 . Find y when $x = 88$ and $y = 7744$.

88. A varies directly as x^2 . Find y when $x = 89$ and $y = 7921$.

89. A varies directly as x^2 . Find y when $x = 90$ and $y = 8100$.

90. A varies directly as x^2 . Find y when $x = 91$ and $y = 8281$.

91. A varies directly as x^2 . Find y when $x = 92$ and $y = 8464$.

92. A varies directly as x^2 . Find y when $x = 93$ and $y = 8649$.

93. A varies directly as x^2 . Find y when $x = 94$ and $y = 8836$.

94. A varies directly as x^2 . Find y when $x = 95$ and $y = 9025$.

95. A varies directly as x^2 . Find y when $x = 96$ and $y = 9216$.

96. A varies directly as x^2 . Find y when $x = 97$ and $y = 9409$.

97. A varies directly as x^2 . Find y when $x = 98$ and $y = 9604$.

98. A varies directly as x^2 . Find y when $x = 99$ and $y = 9801$.

99. A varies directly as x^2 . Find y when $x = 100$ and $y = 10000$.

Advanced Algebra 2: CH variation and other common functions

DIRECT and INVERSE VARIATION FUNCTION INTRODUCTION

Direct Variation: (k is the constant of proportionality)
y varies directly with x. $y = kx$
Note that this is a linear function through the origin.

y varies directly with the square of x. $y = kx^2$
Note that this is a quadratic function through the origin.

y varies directly with the cube of x. $y = kx^3$
Note that this is a cubic function through the origin.

y varies directly with x the nth power. $y = kx^n$
Note that this is a nth degree polynomial through the origin.

Example 1: Suppose y varies directly with x and $y = 25$ when $x = 10$. Write the function of this relationship and determine the value of y when $x = 16$.

Solution: $y = kx$ and with substitution: $25 = k(10)$ which implies $k = \frac{25}{10} = \frac{5}{2}$

So the function is $y = \frac{5}{2}x$ and $y = \frac{5}{2}(16) = 20$ when $x = 16$.

Example 2: Suppose y varies directly with the cube of x and $y = 100$ when $x = 4$. Write the function of this relationship and determine the value of y when $x = 10$.

Solution: $y = kx^3$ and with substitution: $100 = k(4)^3 \Rightarrow 100 = k(64)$ which implies $k = \frac{100}{64} = \frac{25}{16}$

So the function is $y = \frac{25}{16}x^3$ and $y = \frac{25}{16}(10)^3 = \frac{25}{16}(1000) = \frac{3125}{2}$ when $x = 10$.

Complete problems 1 and 5 from section 7.11

WORKSHEET-1

- If the wages of 12 workers for 5 days are \$ 7500, find the wages of 17 workers for 6 days.
(a) \$ 10943 (b) \$ 11057 (c) \$ 12750 (d) \$ 13473
- If a man earns \$ 805 per week, in how many days he will earn \$ 1840?
(a) 7 days (b) 16 days (c) 19 days (d) 23 days
- If car covers 102 km in 6.8 litres of petrol, how much distance will it cover in 24.2 litres of petrol?
(a) 363 km (b) 330 km (c) 375 km (d) 396 km
- If 8 oranges cost \$ 10.40, how many oranges can be bought for \$ 33.80?
(a) 21 (b) 23 (c) 25 (d) 26
- If 18 dolls cost \$ 630, how many dolls can be bought for \$ 455?
(a) 9 (b) 11 (c) 13 (d) 15
- If 3 persons can weave 168 shawls in 1 4 days, how many shawls will be woven by 8 persons days?
(a) 153 (b) 189 (c) 127 (d) 160

Direct variation and indirect variation examples. Example of indirect variation in real life. Example of indirect variation. Direct and indirect variation worksheet with answers.

Direct and inverse variation worksheets are designed for high schoolers and are divided into subtopics like identifying the type of variation by observing equations, graphs and tables, finding the constant of variation, and much more. The worksheets provide dual levels, level 1 deals with direct and inverse variations, while level 2 deals with direct, inverse, joint and combined variation. A prior knowledge of proportions will definitely be an added advantage. Kick-start your practice with our free worksheets! Recognize Direct and Inverse Variation The quintet multiple response pdf worksheets have exercises for learners to observe equations, graphs and recognize the type of variation as direct (linear graph) or inverse (rectangular hyperbola). Direct and Inverse Variation - Equation Equations representing the direct variation are in the form $y = kx$ and inverse variation is in the form $xy = k$. Identify the type of variation in the equations featured in these printable worksheets. Also, find the constant of variation (k). Complete the Table This set of pdf worksheets consist of exercises in tabular format. Find the constant of variation (k) and complete the table. Direct And Inverse Variation Worksheet Direct And Inverse Proportions Class Worksheets Direct And Inverse Variation Worksheet Direct And Inverse Proportions Class Worksheets Direct And Inverse Variation Worksheet Direct And Inverse Variation Worksheet Previous ArticleLaw of Sines Worksheets Next Article Similar Polygons: Ratio of Perimeters & Areas Worksheets Question 1 :If the cost of 8 kg of rice is \$160, then find the cost of 18 kg rice.Question 2 :If the cost of 7 mangoes is 35, then find the cost of 15 mangoes.Question 3 :A train covers a distance of 195 km in 3 hours. At the same speed, find the distance traveled by the train in 5 hours. Question 4 :If 8 workers complete a work in 24 days, in how many hours can 24 workers complete the same work?Question 5 :If 18 men do a work in 20 days, in how many days do 24 men do the same work?Question 6 :A marriage party of 300 people require 60 kg of vegetables. What is the requirement if 500 people turn up for the marriage ?Question 7 :90 teachers are required for a school with a strength 1500 students. How many teachers are required for a school of 2000 students ?Question 8 :A car travels 60 km in 45 minutes. At the same rate, how many kilo meters will it travel in one hour? 1. Answer :Let x be the required cost Quantity of rice Cost of rice 8 160 18 xAs the quantity of rice increase, the cost of rice will also increase. It is in direct variation.8 x = 18·160x = (18·160)/8x = 2880/8x = 3602. Answer :Let x be the required costNo of mangoes Cost of mangoes 7 35 15 xAs the number of mangoes increase the cost will also increase. It is in direct variation.7 · x = 35 · 15x = (35 · 15)/7x = 525/7x = 755So, cost of 15 mangoes is \$75.3. Answer :Let x be the distance traveledDistance traveled Time taken195 3 x 24 24 5As time taken by the train increase the distance traveled xlf number of workers increase, then the number of days will decrease. So, it is in direct variation.195 · 5 = x · 3(195 · 5)/3 = xx = (195 · 5)/3x = 975/3x = 325So, distance travelled in 5 hours is 325 km.4. Answer :Let x be the number of days takenNumber of workers Number of days8 24 24 xlf number of workers increase, then the number of days will decrease. So, it is under inverse variation.8 · 24 = 24 · xx = (8 · 24)/24x = 8 daysSo, number of days taken by 24 workers to complete the work is 8 days.5. Answer :Let x be the number of days takenNumber of workers Number of days 18 24 24 xlf number of workers increase, then the number of days will decrease. So, it is under inverse variation.18 · 20 = 24 · xx = (18 · 20)/24x = 360/24x = 15 daysSo, 24 men can do this work in 15 days.6. Answer :Let x be the required quantity of vegetableNumber of people Quantity of vegetable300 60 500 xlf number of workers increase, then the number of days will decrease. So, it is under inverse variation.300 · x = 500 · 60x = (500 · 60)/300x = 100 kgSo, the quantity of vegetable needed is 100 kg.7. Answer :Let x be the required number of teachersNumber of teachers Number of students90 1500x 2000To teach more number of students, we need more teachers. So, it is under direct variation.90 · 2000 = 1500 · xx = (90 · 2000)/1500x = 180000/1500x = 120 teachersSo, 120 teachers are required to teach 2000 students.8. Answer :Let x be the distance taken by car to cover the distance in one hourDistance covered Time taken60 45 x 80We are taking more time, so distance covered by the train will also be more. So, it is in direct variation.60 · 60 = 45 · xx = (60 · 60)/45x = 3600/45x = 80 km Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com Thank you for your participation! This worksheet explains how to solve problems involving direct variation. A sample problem is solved, and two practice problems are provided. You will solve word based problems like: The speed of the car travelling from A to B varies inversely with the time taken for the travel. If its speed is 60km/hr, it would take 3 hours for the journey. Find the time it would take for the journey if its speed is 90 km/hr. If y varies inversely as x, and y = 7 when x = 6, what is y when x = 3? What is x when y = 3? Ten problems are provided. You will work on problems like: If d varies directly as f and d is 12 when f is 24, find the constant of variation. Students will demonstrate their ability with these types of problems. You will learn how to solve for constants here. If n varies directly as j and n is 6 when j is 18, find the constant of variation. There are about 15 calories in 60 grams of chicken. Mike ate 20 grams of this chicken. About how many calories were in the chicken he ate. If G varies directly as H and G is 3 when H is 48, find the constant of variation. The concept of how to solve problems involving direct variation is reviewed. A sample problem is solved. Six practice problems are provided. Students will demonstrate their proficiency with this topic and series of concepts. Ten problems are provided. Students will work on a wide variety of problems to test their skills out. Worksheet on inverse variation word problems there are various types of questions to practice. Students can recall how to solve word problems on inverse variation and then try to solve the worksheet on inverse variation or inverse proportion.1. If 32 men can reap a field in 15 days, in how many days can 20 men reap the same field? 2. 12 men can dig a pond in 8 days. How many men can dig it in 6 days? 3. A hostel has enough food for 125 students for 16 days. How long will the food last if 75 more students join them? 4. A fort had enough food for 80 soldiers for 60 days. How long would the food last if 20 more soldiers join after 15 days? 5. 500 soldiers in a fort had enough food for 30 days. After 6 days, some soldiers were sent to another fort and thus the food lasted for 32 more days. How many soldiers left the fort? Hint: On the day of transfer of some soldiers from this fort, 500 soldiers had enough food for (30 - 60) = 24 days. But, the food lasted for 32 days. 6. 8 taps having the same rate of flow, fill a tank in 27 minutes. If two taps go out of order, how long will the remaining taps take to fill the tank? 7. If 12 men or 15 women can finish a piece of work in 66 days, how long will 24 men and 3 women take to finish the work? 8. 70 patients in a hospital consume 1350 litres of milk in 30 days. At the same rate, how many patients will consume 1710 litres in 28 days? 9. If 30 labourers working 7 hours a day can finish a piece of work in 18 days, how many labourers working 6 hours a day can finish it in 30 days? 10. If 5 men working 6 hours a day can reap a field in 20 days, in how many days will 15 men reap the field if they work for 8 hours a day? 11. If 18 binders can bind 900 books in 10 days, how many binders will be required to bind 660 books in 12 days? 12. If 20 men can build a 112-m-long wall in 6 days, what will be the length of a similar wall that can be built by 25 men in 3 days? 13. 6 men, working 8 hours a day, earn \$ 8400 per week. What will be the earning per week of 9 men who work for 6 hours a day? 14. If 270 kg of corn would feed 42 horses for 21 days, for how many days would 360 kg of it feed 21 horses? 15. Five machines, when operated for 9 hours each day, can harvest a farm in 16 days. How many days would 8 machines take to harvest the same farm, if each machine is now operated for 10 hours each day? Answers for worksheet on inverse variation are given below to check the exact answers of the question.Answers: 1. 24 days 2. 16 men 3. 10 days 4. 51 days 5. 125 soldiers 6. 36 minutes 7. 30 days 8. 95 patients 9. 21 labourers 10. 5 days 11. 11 binders 12. 70 m 13. \$ 9450 14. 56 days 15. 9 days Ratio and Proportion - Worksheets Worksheet on Direct Variation Worksheet on Inverse Variation 8th Grade Math Practice From Worksheet on Inverse Variation to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this?

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