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Tidd corporation makes a product with the following standard costs

1. Chapter 10 Standard Costs and Dispersions Answer to Key True/False Questions 1. The variance of prices for materials is calculated by multiplying the difference between the actual price and the standard price for the actual number of materials used in the production. FALSE AACSB: Bloom's Reflective Thinking: Knowledge 2. In general, the purchaser is responsible for the variance of prices for materials. THE TRUTH OF THE AACSB: Bloom's Reflective Thinking: Knowledge 3. The variance of prices for materials is favorable if the actual price exceeds the standard price. FALSE AACSB: Bloom's Reflective Thinking: Knowledge 10-64 2 4. Generally speaking, it is the responsibility of the production department to see that the use of the material is kept in line with standards. TRUE AACSB: Bloom's Reflective Thinking: Knowledge 5. When it takes more hours of labor time to complete a job than the standard allows, the variance of the labor rate is unfavorable. FALSE AACSB: Bloom's Reflective Thinking: Understanding the Learning Goal: Calculate direct labor efficiency and speed variance and explain their 6 values. Standard costs should generally be based on the actual costs of previous periods. FALSE AACSB: Bloom's Reflective Thinking: Knowledge 7. The standard quantity per unit for direct materials should not include an allowance for waste. FALSE AACSB: Bloom's Reflective Thinking: Knowledge 10-65 3 8. Ideal standards should be used for forecasting and planning. FALSE AACSB: Bloom's Rebar Thinking: Understanding 9. The standard unit cost is calculated by multiplying the standard number or hours by the standard price or bid. THE TRUTH OF THE AACSB: Bloom's Reflective Thinking: Knowledge 10. Standard costs significantly increase the complexity of the accounting process. FALSE AACSB: Bloom's Reflective Thinking: Multiple Knowledge Choice Questions 10-66 4 11. When calculating standard dispersion costs, the difference between actual and standard price multiplied by actual quantity gives a(n): A. combined price and quantity variance. B. performance variance. C. price variance. D. variance amounts. Material Price Variance = AQ (AP - SP) AACSB: Bloom's Reflective Thinking: The Purpose of Knowledge Training: Calculate Direct Labor Efficiency and Speed Variance and Explain Their Meaning Source: CMA, Adapted 12. The total model for calculating price variance: A. actual number of inputs (actual price - standard price). B. Standard price (actual input count is the standard quantity allowed for output). C. (actual number of inputs at the actual price) - (the standard quantity allowed for release at the standard price). D. Actual price (actual number of inputs is the standard quantity allowed for output). Material Price Variance = AQ (AP - SP) AACSB: Bloom's Reflective Thinking: Understanding Learning Goal: Calculate Direct Labor Efficiency and Speed Variance explain their value 10-67 5 13. Procurement Procurement Clampett ordered lower quality materials in an attempt to save on price and in response to the production manager's demands due to an error in production planning. The materials were sent by aircraft at speeds higher than normally charged for shipment by truck, leading to an adverse variance in material prices. The lower quality of the material proved unsuitable on the production line and led to excessive waste. In this situation, who should be responsible for the price of materials and the variance of quantity? A. Option A B. Option B C. Option C D. Option D Variance of material price is the responsibility of the production manager, since the adverse variance was due to the requirements made by the production manager. The variance of the amount of materials is the responsibility of the purchasing agent, since the purchasing agent was responsible for ordering lower quality material. AACSB: Bloom's Reflective Thinking: Understanding 10-68 6 14. Todco planned to make 3,000 units of its only product, Teragram, during November. Standard specs for a single teragram unit include six pounds of material at \$0.30 per pound. Actual production in November is 3,100 teragram units. The accountant calculated a favorable variance of purchasing materials of \$380 and an unfavorable variance of the amount of materials in the amount of \$120. Based on these variances, we can conclude that: A. more materials were purchased than was used. B. More materials were used than were purchased. C. The actual cost of the materials was less than the standard cost. D. Actual use of materials was less than the standard allowed. Variance of prices for materials = AQ (AP - SP) Favorable variance of prices for materials can occur only if the actual price of materials was less than the standard price. AACSB: Bloom's Reflective Thinking: Understanding Source: CMA, adapted 15. Variance of the number of materials should be calculated: A. when purchasing materials. B. based on the number of materials used in production. C. based on the difference between actual and standard prices per unit times the actual number is used. D. only when there is a difference between the standard and actual cost per unit of materials. Variance on the amount of materials = (AQ - SQ)SP, where AQ is the actual amount used by AACSB: Bloom's Reflective Thinking: Understanding 10-69 7 16. Which department should normally be responsible for the adverse variance of materials prices? A. Production. B. Processing of materials. C. Engineering. D. Purchase. The procurement department should usually be responsible for adverse variance in materials prices, as this department usually has the greatest price controls. AACSB: Bloom's Reflective Thinking: Knowledge 17. Tower planned to make 3,000 units of its Titanium product during November. Standards for Titanium unit specify six pounds of materials at \$0.30 per pound. Actual production in November is 3100 units of titact. There was an adverse variance in materials prices of \$380 and a favorable variance in the amount of materials at \$120. Based on these variances, we can conclude that: A. more materials were purchased than was used. B. More materials were used than were purchased. C. The actual value of the pound for materials was less than the standard value of the pound. D. Actual use of materials was less than the standard allowed. Variance of the amount of materials = (AQ - SQ) JV Favorable variance of the amount of materials occurs only if the actual use of materials was less than the allowed standard, that is, if AQ < SQ. AACSB: Bloom's Reflexive Thinking: Understanding Source: CMA, adapted 10-70 8 18. If the labor efficiency variance is unfavorable, the A. actual hours exceeded the standard hours allowed for actual output. B. the standard hours allowed for actual release exceeded actual hours. C. the standard norm exceeded the actual norm >. Variance of labor efficiency as a result of the use of poor quality materials should be charged with: A. production manager. B. procurement agent. C. overhead production. D. Industrial Engineering Department. The purchasing manager is usually responsible for purchasing substandard materials. AACSB: Bloom's Reflective Thinking: Understanding Learning Goal: Calculate direct labor efficiency and speed variances and explain their value to 10-71 9 20. Adverse direct variance of labor efficiency can be caused by: A. adverse variance of the amount of materials. B. Adverse variable consignment rate. C. favorable variance of the amount of materials. D. favorable variable variance overhead. Adverse variance of quantity can be caused by poor quality materials, which, in turn, can lead to adverse dispersion of labor efficiency. AACSB: Bloom's Reflective Thinking: Understanding Learning Purpose: Calculate direct labor efficiency and speed variance and explain their meaning Source: CMA, adapted 21. Variable production overheads are made on products based on standard direct labor hours. If the direct variance of labor efficiency is unfavorable, the variable overhead of efficiency will be: A. favorable. B. unfavorable. C. favorable or unfavorable. D. zero. Labour efficiency variance = (AH - SH) Variable overhead efficiency variance = (AH - SH) SR If performance variances are unfavorable, > SH. If > SH, variable overhead efficiency variance should be unfavorable. AACSB: Bloom's Reflective Thinking: Knowledge Source: CMA, adapted 10-72 10 22. Which of the following statements about ideal standards is incorrect? A. Ideal standards generally do not provide the best motivation for workers. B. Ideal standards do not make allowances for waste, damage and machine breakage. C. Ideal standards are better suited for cash budgeting than practical standards. D. Ideal standards can be better than practical standards when managers seek continuous improvement. Practical standards provide better cash flow forecasts for cash budgeting than practical standards. AACSB: Bloom's Reflective Thinking: Understanding Source: CMA, adapted 23. Porter has a standard cost system. In July, the company purchased and used 22,500 pounds of direct material at an actual cost of \$53,000; the number of materials was \$1875 Unfavorably; and the standard amount of materials allowed for July production is \$21,750. The variance in materials prices for July was: A. \$2,725 F B. \$2,725 U C. \$3,250 F D. \$3,250 U Materials price variance = (AQ AP) - (AQ SP) = \$53,000 - (22,500 pounds \$2.50 per pound) = \$53,000 - \$56,250 = \$3,250 F Level: Hard 10-73 11 24. Last month, £75,000 of direct material was purchased and £71,000 was used. If the actual purchase price per pound was \$0.50 more than the standard purchase price per pound, the variance in the price of materials was: A. \$2,000 F B. \$37,500 F C. \$37,500 U D. \$35,500 U Materials price variance = (AQ AP) - (AQ SP) = AQ (AP - SP) = 75,000 pounds \$0.50 per pound = \$37,500 U 25. The following standards of materials are set for a particular product: The following product transactions for the last month: What is the variance in the amount of materials per month? A. \$19,460 F B. \$9,730 U C. \$10,115 U D. \$20,230 F SQ = 7.3 pounds per unit 1.0 units = 7,300 pounds Materials number variance = (AQ - SQ) SP = (5,900 pounds - 7,300 pounds) \$14.45 per pound = (-1,400 pounds) \$14.45 per pound = \$20,230 F 10-74 12 26. The following standards of materials are set for a particular product: The following product transactions for the last month: What is the variance in material prices for the month? A. \$15,405 F B. \$5,775 U C. \$5925 U D. \$1600 U AQ AP = \$63,200 Materials Price Var AQ (AP - SP) = AQ AP - AQ SP Price Variance = \$63,200 - (3,200 feet \$19.25 per foot) = \$63,200 - \$61,600 = \$1,600 U 10-75 13 27. Wright has a standard cost system. The following data is available for September: Actual price per pound of direct materials purchased in September: A. \$1.85 B. \$2.00 C. \$2.10 D. \$2.15 Variance of materials prices = AQ (AP - SP) 25,000 pounds (AP - \$2 per pound) = \$2,500 U 25,000 pounds AP - \$50,000 = \$2,500 U 25,000 pounds AP - \$50,000 = \$2,500 pounds AP = \$52,500 AP = \$52,500 25,000 pounds AP = \$2.10 per pound Level: Hard 10-76 14 28. Cox uses the standard cost. The following data are available for April: Standard amount of material allowed for April production: A. 14,200 gallons B. 12,700 gallons C. 11,700 gallons D. 10,200 gallons Number of dispersion materials = (AQ - SQ) SP (12200 gallons - SQ) \$4 per gallon = \$4 per gallon 2000 U (\$48,800 - SQ) \$4 per gallon = \$2,000 U SQ \$4 per gallon = \$46,800 SQ = \$46,800 \$4 per gallon SQ = 11,700 gallon level : Hard 10-77 15 29. The standard product cost card shows that the product must use 4 kilograms of material B per finished unit and that the standard price of material B is \$4.50 per kilogram. During April, when the budget level of production is 1000 units, actually 1040 units were produced. A total of 4,100 kilograms of B material were used in production, and the stockpiles of material B were reduced by 300 kilograms during April. The total cost of Material B purchased during April was \$14,400. Material variances for material B during April were: A. Option A B. Option B C. Option C D. Option D Start balance of raw materials + Raw materials purchases = Materials used in production + Final balance of raw materials Purchases of raw materials = Materials used in production + Final balance of raw materials - Beginning of raw material balance Purchases of raw materials = Materials used in production + Final balance of raw materials - Initial balance of raw materials) = 4100 kilograms + (-300 kilograms) = 3,800 kilograms. kilograms Price of variance materials = AQ (AP - SP) = \$14,400 - (3800 kilograms \$4.50 per kilogram) = \$14,400 - \$17,100 = \$2,700 F Number of dispersion materials = (AQ - SQ) SP = AQ SP - AQ SP SQ - SP = \$18,450 - (1,040 units 4 kilograms per unit) \$4.50 per kilogram = \$18,450 - \$18,720 = \$270 F Level: Hard Source: CMA, adapted 10-78 16 30. The following labor standards are set for a particular product: The following data relate to product transactions for the last month: What is the variance in labor efficiency for the month? A. \$13,805 U B. \$13,530 U C. \$15,305 U D. \$15,305 F SH = 1,500 units 4 hours per unit = 6,000 hours Of Labor Efficiency Variance = (AH - SH) SR = (7,100 hours - 6,000 hours) \$1,000 12.30 per hour = (1,100 hours) \$12.30 an hour = \$13,530 U Learning Goal: Calculate direct labor efficiency and dispersion rate and explain their value to 10-79 17 31. The following labor standards have been set for a particular product: The following data relate to product transactions over the past month: What is the labor rate variance for the month? A. \$1,325 U B. \$1,780 F C. \$430 F D. \$430 U AH AR = \$94,340 Labor Rate Variance = AH (AR - SR) = AH - AH SR = \$94,340 - (5300 hours \$17.55 per hour) = \$1,325 U Training Goal: Calculate Direct Labor Efficiency and Speed and explain their value 10-80 18 32. Direct labor standards for the product are 2.5 hours at \$8 an hour. Last month, 9,000 units of the product were produced, and the productivity variance was \$8,000 F. The actual number of hours worked in the past period is: A. 23,500 B. 22,500 C. 20500 D. 21500 SH = 9000 units 2.5 hours per unit = 22,500 0 hours Labor Efficiency Variance = (AH - SH) SR = (AH - 22,500 hours) \$8 per hour = -\$8,000 AH \$8 per hour - \$1,800,000 = -\$8,000 AH \$8 per hour AH = 21,500 hours : Calculate the direct efficiency of work and speed variances and explain their value Level: Hard 10-81 19 33. Reedy uses a standard cost system. The following data is available for November: The actual direct labor rate for November is: A. \$8.80 B. \$8.90 C. \$9.00 D. \$9.20 Labor rate variance = AH(AR - SR) 5800 hours (AR - \$9 per hour) = -\$1,160 5,800 hours AR - \$52,200 = -\$1,160 5,800 hours AR = \$51,000 AR = \$51,040 5,800 hours AR = \$8.80 per hour Learning goal: Calculate direct labor efficiency and speed variances and explain their significance Level : Hard 10-82 20 34. Borden Enterprises uses the standard cost. For April, the company reported the following data: Standard Direct Labor Rate: \$10 an hour Standard hours allowed for actual production: 8,000 hours Actual direct labor rate: \$9.50 per hour Labor efficiency variance: \$4,800 Favorable Labor Rate Variance for April is: A. \$3,760 U B. \$3,760 F. \$2,850 F D. \$2,850 U Labor Efficiency Variance = (AH - SH) SR = (AH - 8,000 hours) \$10 per hour = -\$4,800 AH \$10 per hour - \$80,000 = -\$4,800 AH \$10 per hour = \$75200 AH = \$75,200 \$10 an hour AH = 7520 dispersion labor rates = AH (AR - SR) = 7520 hours (\$9.50 per hour) = \$3,760 F Learning Goal: Calculate direct labor efficiency and dispersion rate and explain their value Level: Hard 10-83 21 35. Furson Corporation produces a single product. Over the past period, 6,500 units have been produced and there has been an adverse variance in labor efficiency of \$26,000. Direct workers were paid \$8 an hour and the total wage was \$182,000. Labour's rate variance was zero. Standard working hours per unit of products closest to: A. 3.0 B. 3.5 C. 4.0 D. 4.5 AH = \$182,000 \$8 per hour = 22,75 0 hours of labor dispersion = AH (AR - SR) \$0 = 22,750 hours (\$8 per hour - SR) SR = \$8 per hour Labor Efficiency Variance = (AH - SH) SR = (22,750 hours - 6,500 units Standard hours per unit) \$8 per hour (22,750 hours - 6,500 units Standard hours per unit) = \$26,000 \$8 per hour (22,750 hours - 6,500 units Standard hours per unit) = 32,500 hours 6500 units Standard hours per unit = 19,500 hours hours per unit = 19,500 hours 6,500 units Standard hours per unit = 3 hours per unit Learning goal: goal: direct performance and speed variances and explain their meaning Level: Hard Source: CMA, adapted 10-84 22 36. For a company that manufactures only one product, the following variable production overhead standards are set: The following data relate to operations for the past month: What is the variable overhead performance variance for the month? A. \$10,179 U B. \$10,179 U C. \$9867 U D. \$648 U SH = 600 units 2.7 hours per unit = 1.7 hours per unit 620 hours Variable consignment rate variance = (AH - SH) SR = (2400 hours - 1620 hours) \$13.05 per hour = (780 hours) \$13.05 per hour = \$10,179 U 10-85 23 37. For a company that manufactures only one product, the following variable production overhead standards are set: The following data relate to operations over the past month: What is the variable overhead rate variance per month? A. \$1,200 F B. \$9,625 F C. \$8,425 F D. \$990 U Variable overhead rate variance = AH (AR - SR) = AH AR - AH SR = \$45,375 - (3300 hours \$13.45 per hour) = \$45,375 - \$44,385 = \$990 U 10-86 24 38. Millonzi Corporation has a standard cost system in which it applies overhead production to products based on standard machine-hours (MS). The company provided the following data for the last month: What was the variance of variable invoice rates for the month? A. \$4,350 favorable B. \$2,000 unfavorable C. \$2,650 favorable D. \$1,700 favorable variable overhead rates variance = AH (AR - SR) = AH AR - AH SR = \$42,400 - (5,300 hours \$8.50 per hour) = \$42,400 - \$45,050 = \$2,650 F Level: Hard 10-87 25 39. Lafontaine Manufacturing Corporation has a standard cost system in which it applies production overheads to products based on standard machine-hours (MHs). The company's value formula for variable overhead production is \$4.70 per MH. During the month, the actual total overhead for the production of variables was \$20,210, and the actual level of activity during this period was 4700 METRES. What was the variance of the variable overhead rate for the month? A. \$400 unfavorable B. \$1,880 favorable C. \$1,880 unfavorable D. \$400 favorable variable consignment rate = AH (AR - SR) = AH AR - AH SR = \$20,210 - (4700 hours \$4.70 per hour) = \$20,210 - \$22,090 = \$1880 F 10-88 26 40. Down Corporation applies production overheads to products based on standard machine-hours. Over the past month, the company bases its budget on 4400 engineering. Budget and actual overheads for the month appear below: the company actually operated 4,460 machine-hours during the month. The standard hours allowed for actual release were 4,310 machine-hours during the month. What was the

