$p_A := 98$ $p_B := 107$ $p_B := 32$ $p_B := 10$ $p_B := 32$ $p_B := 32$ $p_B := 32$

 $\operatorname{spc}_{\mathbf{A}} := 0$ $\operatorname{spc}_{\mathbf{B}} := 2$

 $t1_A := 6min$ $t1_B := 4min$

 $t2_A := 4min$ $t2_B := 2min$

 $t3_A := 4min$ $t3_B := 3min$

 $t4_A := 10 min$ $t4_B := 8 min$

 $xp_A := 2100$ $xp_B := 4000$

 $xs_{A} := 2100$ $xs_{B} := 3960$

IMCf := 3820

POH1f := 28600

POH2f := 11480

POH3f := 27540

POH4f := 10600

ACf := 76326

SCf := 114489

 $\mathsf{DMC} \coloneqq \mathsf{dmc}_A \cdot \mathsf{xp}_A + \mathsf{dmc}_B \cdot \mathsf{xp}_B$

DMC =

 $IMCv := 0.03 \cdot DMC$

IMCv =

 $poh1v := 0.5min^{-1}$

$$\begin{aligned} poh2v &:= 0.3 min^{-1} \\ poh3v &:= 0.45 min^{-1} \\ poh4v &:= 0.3 min^{-1} \\ POH1v &:= poh1v \cdot t1_A \cdot xp_A + poh1v \cdot t1_B \cdot xp_B \\ POH1v &= \\ POH2v &:= poh2v \cdot t2_A \cdot xp_A + poh2v \cdot t2_B \cdot xp_B \\ POH2v &= \\ POH3v &:= poh3v \cdot t3_A \cdot xp_A + poh3v \cdot t3_B \cdot xp_B \\ POH3v &= \\ POH3v &= \\ POH4v &:= poh4v \cdot t4_A \cdot xp_A + poh4v \cdot t4_B \cdot xp_B \\ POH4v &= \\ \\ imc_A &:= \frac{IMCf + IMCv}{DMC} \cdot dmc_A \\ imc_B &= \\ \\ imc_B &= \\ \\ poh1_A &:= \frac{POH1f + POH1v}{t1_A \cdot xp_A + t1_B \cdot xp_B} \cdot t1_A \\ poh1_B &= \\ \\ poh1_B &= \\ \\ poh2_A &:= \frac{POH2f + POH2v}{t2_A \cdot xp_A + t2_B \cdot xp_B} \cdot t2_A \\ \\ poh2_B &:= \frac{POH2f + POH2v}{t2_A \cdot xp_A + t2_B \cdot xp_B} \cdot t2_A \\ \end{aligned}$$

$$poh3_{A} := \frac{POH3f + POH3v}{t3_{A} \cdot xp_{A} + t3_{B} \cdot xp_{B}} \cdot t3_{A}$$

 $imc_{\Delta} =$

 $poh1_A =$

poh2_A =

$$poh3_{B} := \frac{POH3f + POH3v}{t3_{A} \cdot xp_{A} + t3_{B} \cdot xp_{B}} \cdot t3_{B}$$

 $poh2_B =$

$$poh3_A = poh3_B =$$

$$poh4_{A} := \frac{POH4f + POH4v}{t4_{A} \cdot xp_{A} + t4_{B} \cdot xp_{B}} \cdot t4_{A}$$

$$\mathsf{poh4}_B \coloneqq \frac{\mathsf{POH4f} + \mathsf{POH4v}}{\mathsf{t4}_A \!\cdot\! \mathsf{xp}_A + \mathsf{t4}_B \!\cdot\! \mathsf{xp}_B} \!\cdot\! \mathsf{t4}_B$$

$$poh4_B =$$

 $mc_A := dmc_A + imc_A + dlc_A + poh1_A + poh2_A + poh3_A + poh4_A + spc_A$

 $mc_B := dmc_B + imc_B + dlc_B + poh1_B + poh2_B + poh3_B + poh4_B + spc_B$

 $mc_A =$

$$mc_B =$$

 $MCOGS_A := mc_A \cdot xs_A$

$$MCOGS_B := mc_B \cdot xs_B$$

 $MCOGS_A =$

$$MCOGS_B =$$

 $MCOGS := MCOGS_A + MCOGS_B$

MCOGS =

 $ACv := 0 \cdot MCOGS$

 $SCv := 0 \cdot MCOGS$

$$ac_A := \frac{ACf + ACv}{MCOGS} \cdot mc_A$$

$$ac_B := \frac{ACf + ACv}{MCOGS} \cdot mc_B$$

ac_A =

$$sc_A := \frac{SCf + SCv}{MCOGS} \cdot mc_A$$

$$sc_B := \frac{SCf + SCv}{MCOGS} \cdot mc_B$$

sc_A =

$$sc_B =$$

$$tc_A := mc_A + ac_A + sc_A$$

$$tc_B := mc_B + ac_B + sc_B$$

 $tc_A =$

$$tc_B =$$

$$r_A := p_A - tc_A$$

$$r_B := p_B - tc_B$$

$$r_A =$$

$$r_B =$$

Cost-of-sales results accounting

$$R_A := r_A \cdot x s_A$$

$$R_B := r_B \cdot x s_B$$

$$R_A =$$

$$R_B =$$

$$R := R_A + R_B$$

Total cost results accounting

$$S_A := p_A \cdot x s_A$$

$$S_B := p_B {\cdot} x s_B$$

$$S_B =$$

$$S := S_A + S_B$$

$$IC_A := mc_A \cdot (xp_A - xs_A)$$

$$IC_B := mc_B \cdot (xp_B - xs_B)$$

$$IC_B =$$

$$IC := IC_A + IC_B$$

$$TP_A := S_A + IC_A$$

$$TP_B := S_B + IC_B$$

$$TP_A =$$

$$TP_B =$$

$$TP := TP_A + TP_B$$

$$MCOP_A := mc_A \cdot xp_A$$

$$MCOP_B := mc_B \cdot xp_B$$

$$MCOP := MCOP_A + MCOP_B$$

$$AC_A := ac_A \cdot xs_A$$

$$AC_B := ac_B \cdot xs_B$$

$$AC_B =$$

$$AC := AC_A + AC_B$$

AC =

$$SC_A := sc_A \cdot xs_A$$

 $SC_B := sc_B \cdot xs_B$

SC_B =

$$SC := SC_A + SC_B$$

SC =

$$TCOP_A := MCOP_A + AC_A + SC_A$$

 $TCOP_B := MCOP_B + AC_B + SC_B$

TCOP_B =

$$TCOP := TCOP_A + TCOP_B$$

TCOP =

$$R_A := TP_A - TCOP_A$$

 $\mathsf{R}_{\mathsf{B}} \coloneqq \mathsf{TP}_{\mathsf{B}} - \mathsf{TCOP}_{\mathsf{B}}$

$$R_A =$$

 $R_B =$

$$R := R_A + R_B$$

R=

Legend:

Index A, B for products

S = Sales (value), turnover

TP = Total performance

AC = Administration cost

SC = Sales cost

IC = Change in inventory of finished goods

TCOP = Total cost of goods produced

MCOP = Manufacturing cost of goods produced

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p = Selling price
dmc = Direct cost of materials per unit
dlc = Direct cost of labour per unit
spc = Special direct production cost per unit
t1 = Production time in Direct Production Cost Centre 1 per unit
t2 = Production time in Direct Production Cost Centre 2 per unit
t3 = Production time in Direct Production Cost Centre 3 per unit
t4 = Production time in Direct Production Cost Centre 4 per unit
xp = Quantity of goods produced
xs = Quantity of goods sold
IMCf = Fixed indirect cost of materials
POH1f = Fixed production overhead 1 (in Direct Production Cost Centre 1)
POH2f = Fixed production overhead 2 (in Direct Production Cost Centre 2)
POH3f = Fixed production overhead 3 (in Direct Production Cost Centre 3)
POH4f = Fixed production overhead 4 (in Direct Production Cost Centre 4)
ACf = Fixed administration cost
SCf = Fixed sales cost
DMC = Direct cost of material
IMCv = Variable indirect cost of material
poh1v = Variable production overhead 1 (in Direct Production Cost Centre 1) per minute
poh2v = Variable production overhead 2 (in Direct Production Cost Centre 2) per minute
poh3v = Variable production overhead 3 (in Direct Production Cost Centre 3) per minute
poh4v = Variable production overhead 4 (in Direct Production Cost Centre 4) per minute
POH1v = Variable production overhead 1 (in Direct Production Cost Centre 1)
POH2v = Variable production overhead 2 (in Direct Production Cost Centre 2)
POH3v = Variable production overhead 3 (in Direct Production Cost Centre 3)
POH4v = Variable production overhead 4 (in Direct Production Cost Centre 4)
imc = Indirect cost of materials per unit
poh1 = Production overhead 1 per unit
poh2 = Production overhead 2 per unit
poh3 = Production overhead 3 per unit
poh4 = Production overhead 4 per unit
mc = Manufacturing cost per unit
MCOGS = Manufacturing cost of goods sold
ACv = Variable administration cost
SCv = Variable sales cost
ac = Administration cost per unit
sc = Sales cost per unit
tc = Total cost per unit
r = Result per unit
R = Result
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