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SUM of PRODUCTS

Map

| Ad | ldresses | | | | | | | | |
|----|------------------------------------------|------------------------------------------|-------------------------------|-------|-----------------------------------|-------------------------------|-------|-------|--------------------|
| | | $\overline{D}.\overline{E}.\overline{F}$ | $\overline{D}.\overline{E}.F$ | D.E.F | \overline{D} .E. \overline{F} | $D.\overline{E}.\overline{F}$ | D.E.F | D.E.F | $D.E.\overline{F}$ |
| | $\overline{A}.\overline{B}.\overline{C}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | $\overline{A}.\overline{B}.C$ | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| | \overline{A} .B.C | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | $\overline{A}.B.\overline{C}$ | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | $A.\overline{B}.\overline{C}$ | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | $A.\overline{B}.C$ | X | X | X | X | X | X | X | X |
| | A.B.C | X | X | X | X | X | X | X | X |
| | $A.B.\overline{C}$ | X | X | X | X | X | X | X | X |
| | | | | | | | | | |

Map Layout

| | $\overline{D}.\overline{E}.\overline{F}$ | $\overline{D}.\overline{E}.F$ | $\overline{\mathrm{D}}.\mathrm{E.F}$ | $\overline{\mathrm{D}}.\mathrm{E}.\overline{\mathrm{F}}$ | $D.\overline{E}.\overline{F}$ | D.Ē.F | D.E.F | $D.E.\overline{F}$ |
|------------------------------------------|------------------------------------------|-------------------------------|--------------------------------------|----------------------------------------------------------|-------------------------------|-------|-------|--------------------|
| $\overline{A}.\overline{B}.\overline{C}$ | 0 | 1 | 3 | 2 | 4 | 5 | 7 | 6 |
| $\overline{A}.\overline{B}.C$ | 8 | 9 | 11 | 10 | 12 | 13 | 15 | 14 |
| \overline{A} .B.C | 24 | 25 | 27 | 26 | 28 | 29 | 31 | 30 |
| $\overline{A}.B.\overline{C}$ | 16 | 17 | 19 | 18 | 20 | 21 | 23 | 22 |
| $A.\overline{B}.\overline{C}$ | 32 | 33 | 35 | 34 | 36 | 37 | 39 | 38 |
| $A.\overline{B}.C$ | 40 | 41 | 43 | 42 | 44 | 45 | 47 | 46 |
| A.B.C | 56 | 57 | 59 | 58 | 60 | 61 | 63 | 62 |
| $A.B.\overline{C}$ | 48 | 49 | 51 | 50 | 52 | 53 | 55 | 54 |

Groups

| (13,29,45,61) | C.D.E.F |
|---------------|--------------------------------------------------------------------------------|
| (34,42,50,58) | $A.\overline{D}.E.\overline{F}$ |
| (11,43) | $\overline{\mathrm{B}}.\mathrm{C}.\overline{\mathrm{D}}.\mathrm{E}.\mathrm{F}$ |
| (18,50) | $B.\overline{C}.\overline{D}.E.\overline{F}$ |

1 of 4 3/23/2018, 11:47 PM

y = CDE'F + AD'EF' + B'CD'EF + BC'D'EF'

 $A \ \overline{A} \ B \ \overline{B} \ C \ \overline{C} \ D \ \overline{D} \ E \ \overline{E} \ F \ \overline{F}$

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Addresses

 \overline{A} \overline{A} \overline{B} \overline{B} \overline{C} \overline{C} \overline{D} \overline{D} \overline{E} \overline{E} \overline{F}

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 $A \ \overline{A} \ B \ \overline{B} \ C \ \overline{C} \ D \ \overline{D} \ E \ \overline{E} \ F \ \overline{F}$

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 $A \ \overline{A} \ B \ \overline{B} \ C \ \overline{C} \ D \ \overline{D} \ E \ \overline{E} \ F \ \overline{F}$

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Truth Table

| | A | В | C | D | E | F | Y |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |

2 of 4 3/23/2018, 11:47 PM

| | 6 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
|----|-------------|---|---|---|---|---|---|---|
| | 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 11 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| Αċ | 12 dress | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 13 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| | 14 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| | 15 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| | 16 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 17 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| | 18 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| | 19 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| | 20 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 21 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| | 22 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| | 23 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| | 24 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 25 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| | 26 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| | 27 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| | 28 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 29 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| | 30 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| | 31 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 34 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 35 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| | 36 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 37 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| | 38 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 39 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| | 40 | 1 | 0 | 1 | 0 | 0 | 0 | X |
| | 41 | 1 | 0 | 1 | 0 | 0 | 1 | X |

3 of 4 3/23/2018, 11:47 PM

| | 42 | 1 | 0 | 1 | 0 | 1 | 0 | x |
|----|-------------|------|---|---|---|---|---|---|
| | 43 | 1 | 0 | 1 | 0 | 1 | 1 | X |
| | 44 | 1 | 0 | 1 | 1 | 0 | 0 | X |
| | 45 | 1 | 0 | 1 | 1 | 0 | 1 | X |
| | 46 | 1 | 0 | 1 | 1 | 1 | 0 | X |
| | 47 | 1 | 0 | 1 | 1 | 1 | 1 | X |
| Ad | 48 dress | 1 es | 1 | 0 | 0 | 0 | 0 | X |
| | 49 | 1 | 1 | 0 | 0 | 0 | 1 | X |
| | 50 | 1 | 1 | 0 | 0 | 1 | 0 | X |
| | 51 | 1 | 1 | 0 | 0 | 1 | 1 | X |
| | 52 | 1 | 1 | 0 | 1 | 0 | 0 | X |
| | 53 | 1 | 1 | 0 | 1 | 0 | 1 | X |
| | 54 | 1 | 1 | 0 | 1 | 1 | 0 | X |
| | 55 | 1 | 1 | 0 | 1 | 1 | 1 | X |
| | 56 | 1 | 1 | 1 | 0 | 0 | 0 | X |
| | 57 | 1 | 1 | 1 | 0 | 0 | 1 | X |
| | 58 | 1 | 1 | 1 | 0 | 1 | 0 | X |
| | 59 | 1 | 1 | 1 | 0 | 1 | 1 | X |
| | 60 | 1 | 1 | 1 | 1 | 0 | 0 | X |
| | 61 | 1 | 1 | 1 | 1 | 0 | 1 | X |
| | 62 | 1 | 1 | 1 | 1 | 1 | 0 | X |
| | 63 | 1 | 1 | 1 | 1 | 1 | 1 | X |

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3/23/2018, 11:47 PM 4 of 4