



Consigne : Calculer les PPCM suivants.

$PPCM(12 ; 9)$	$PPCM(18 ; 12)$	$PPCM(150 ; 50)$
$PPCM(4 ; 10)$	$PPCM(108 ; 24)$	$PPCM(90 ; 100)$
$PPCM(4\ 546 ; 195)$	$PPCM(12 ; 300)$	$PPCM(1\ 056 ; 330)$
$PPCM(220 ; 15)$	$PPCM(750 ; 160)$	$PPCM(3\ 300 ; 440)$
$PPCM(140 ; 63)$	$PPCM(270 ; 120)$	$PPCM(1\ 050 ; 8)$
$PPCM(30\ 492 ; 44 ; 50)$	$PPCM(70 ; 10 ; 40)$	$PPCM(595 ; 85 ; 300)$
$PPCM(11 ; 13 ; 27)$	$PPCM(222 ; 666 ; 888)$	



Correction

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$\begin{aligned} \text{PPCM}(12 ; 9) \\ 12 &= 2^2 \times 3 \\ 9 &= 3^2 \\ \text{PPCM}(12 ; 9) &= 2^2 \times 3^2 = 36 \end{aligned}$	$\begin{aligned} \text{PPCM}(18 ; 12) \\ 18 &= 2 \times 3^2 \\ 12 &= 2^2 \times 3 \\ \text{PPCM}(18 ; 12) &= 2^2 \times 3^2 = 36 \end{aligned}$	$\begin{aligned} \text{PPCM}(150 ; 50) \\ 150 &= 2 \times 3 \times 5^2 \\ 50 &= 2 \times 5^2 \\ \text{PPCM}(150 ; 50) &= 2 \times 3 \times 5^2 \\ &= 150 \end{aligned}$
$\begin{aligned} \text{PPCM}(4 ; 10) \\ 4 &= 2^2 \\ 10 &= 2 \times 5 \\ \text{PPCM}(4 ; 10) &= 2^2 \times 5 = 20 \end{aligned}$	$\begin{aligned} \text{PPCM}(108 ; 24) \\ 108 &= 2^2 \times 3^3 \\ 24 &= 2^3 \times 3 \\ \text{PPCM}(108 ; 24) &= 2^3 \times 3^3 = 216 \end{aligned}$	$\begin{aligned} \text{PPCM}(90 ; 100) \\ 90 &= 2 \times 3^2 \times 5 \\ 100 &= 2^2 \times 5^2 \\ \text{PPCM}(90 ; 100) &= 3^2 \times 2^2 \times 5^2 \\ &= 900 \end{aligned}$
$\begin{aligned} \text{PPCM}(4\,546 ; 195) \\ 4\,546 &= 2 \times 2\,273 \\ 195 &= 3 \times 5 \times 13 \\ \text{PPCM}(4\,546 ; 195) \\ &= 2 \times 3 \times 5 \times 13 \times 2\,273 \\ &= 886\,470 \end{aligned}$	$\begin{aligned} \text{PPCM}(12 ; 300) \\ 12 &= 2^2 \times 3 \\ 300 &= 2^2 \times 3 \times 5^2 \\ \text{PPCM}(12 ; 300) &= 2^2 \times 3 \times 5^2 \\ &= 300 \end{aligned}$	$\begin{aligned} \text{PPCM}(1\,056 ; 330) \\ 1\,056 &= 2^4 \times 3 \times 11 \\ 330 &= 2 \times 3 \times 5 \times 11 \\ \text{PPCM}(1\,056 ; 330) \\ &= 2^4 \times 3 \times 5 \times 11 \\ &= 5\,280 \end{aligned}$
$\begin{aligned} \text{PPCM}(220 ; 15) \\ 220 &= 2^2 \times 5 \times 11 \\ 15 &= 3 \times 5 \\ \text{PPCM}(220 ; 15) &= 2^2 \times 3 \times 5 \times 11 \\ &= 660 \end{aligned}$	$\begin{aligned} \text{PPCM}(750 ; 160) \\ 750 &= 2 \times 3 \times 5^3 \\ 160 &= 2^5 \times 5 \\ \text{PPCM}(750 ; 160) &= 2^5 \times 3 \times 5^3 \\ &= 12\,000 \end{aligned}$	$\begin{aligned} \text{PPCM}(3\,300 ; 440) \\ 3\,300 &= 2^2 \times 3 \times 5^2 \times 11 \\ 440 &= 2^3 \times 5 \times 11 \\ \text{PPCM}(3\,300 ; 440) \\ &= 2^3 \times 3 \times 5^2 \times 11 \\ &= 6\,600 \end{aligned}$
$\begin{aligned} \text{PPCM}(140 ; 63) \\ 140 &= 2^2 \times 5 \times 7 \\ 63 &= 3^2 \times 7 \\ \text{PPCM}(140 ; 63) \\ &= 2^2 \times 3^2 \times 5 \times 7 \\ &= 1\,260 \end{aligned}$	$\begin{aligned} \text{PPCM}(270 ; 120) \\ 270 &= 2 \times 3^3 \times 5 \\ 120 &= 2^3 \times 3 \times 5 \\ \text{PPCM}(270 ; 120) &= 2^3 \times 3^3 \times 5 \\ &= 1\,080 \end{aligned}$	$\begin{aligned} \text{PPCM}(1\,050 ; 8) \\ 1\,050 &= 2 \times 3 \times 5^2 \times 7 \\ 8 &= 2^3 \\ \text{PPCM}(1\,050 ; 8) \\ &= 2^3 \times 3 \times 5^2 \times 7 \\ &= 4\,200 \end{aligned}$
$\begin{aligned} \text{PPCM}(30\,492 ; 44 ; 50) \\ 30\,492 &= 2^2 \times 3^2 \times 7 \times 11^2 \\ 44 &= 2^2 \times 11 \\ 50 &= 2 \times 5^2 \end{aligned}$	$\begin{aligned} \text{PPCM}(70 ; 10 ; 40) \\ 70 &= 2 \times 5 \times 7 \\ 10 &= 2 \times 5 \\ 40 &= 2^3 \times 5 \end{aligned}$	$\begin{aligned} \text{PPCM}(595 ; 85 ; 300) \\ 595 &= 5 \times 7 \times 17 \\ 85 &= 5 \times 17 \\ 300 &= 2^2 \times 3 \times 5^2 \end{aligned}$

$PPCM(30\ 492 ; 44 ; 50)$ $= 2^2 \times 3^2 \times 5^2 \times 7 \times 11^2$ $= 762\ 300$	$PPCM(70 ; 10 ; 40) = 2^3 \times 5 \times 7$ $= 280$	$PPCM(595 ; 85 ; 300)$ $= 2^2 \times 3 \times 5^2 \times 7 \times 17$ $= 35\ 700$
$PPCM(11 ; 13 ; 27)$ $11 = 11$ $13 = 13$ $27 = 3^3$ $PPCM(11 ; 13 ; 27) = 11 \times 13 \times 3^3$ $= 3\ 861$	$PPCM(222 ; 666 ; 888)$ $222 = 2 \times 3 \times 37$ $666 = 2 \times 3^2 \times 37$ $888 = 2^3 \times 3 \times 37$ $PPCM(222 ; 666 ; 888)$ $= 2^3 \times 3^2 \times 37$ $= 2\ 664$	