

# HP Officejet Pro K5400 Series Printers L7580 Series AiO

## Cost-per-Print: Thailand

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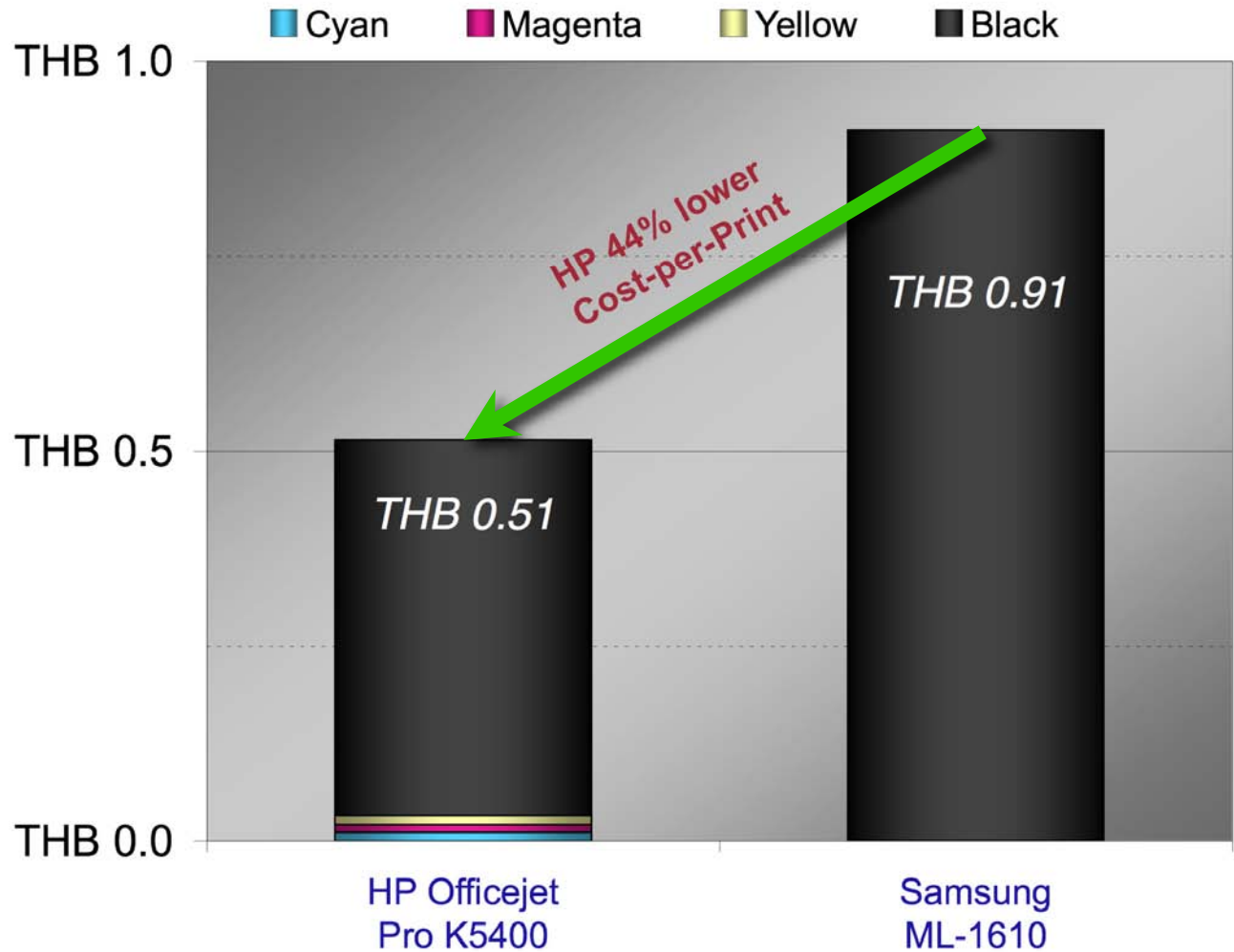


# Cost-per-Print: Thai Baht — HP Officejet Pro K5400 Color Inkjet and Samsung ML-1610 Monochrome Laser Printer

**spencerLAB**  
COST-PER-PRINT TESTED



ISO/IEC Standard Test Page



All testing performed using default driver settings

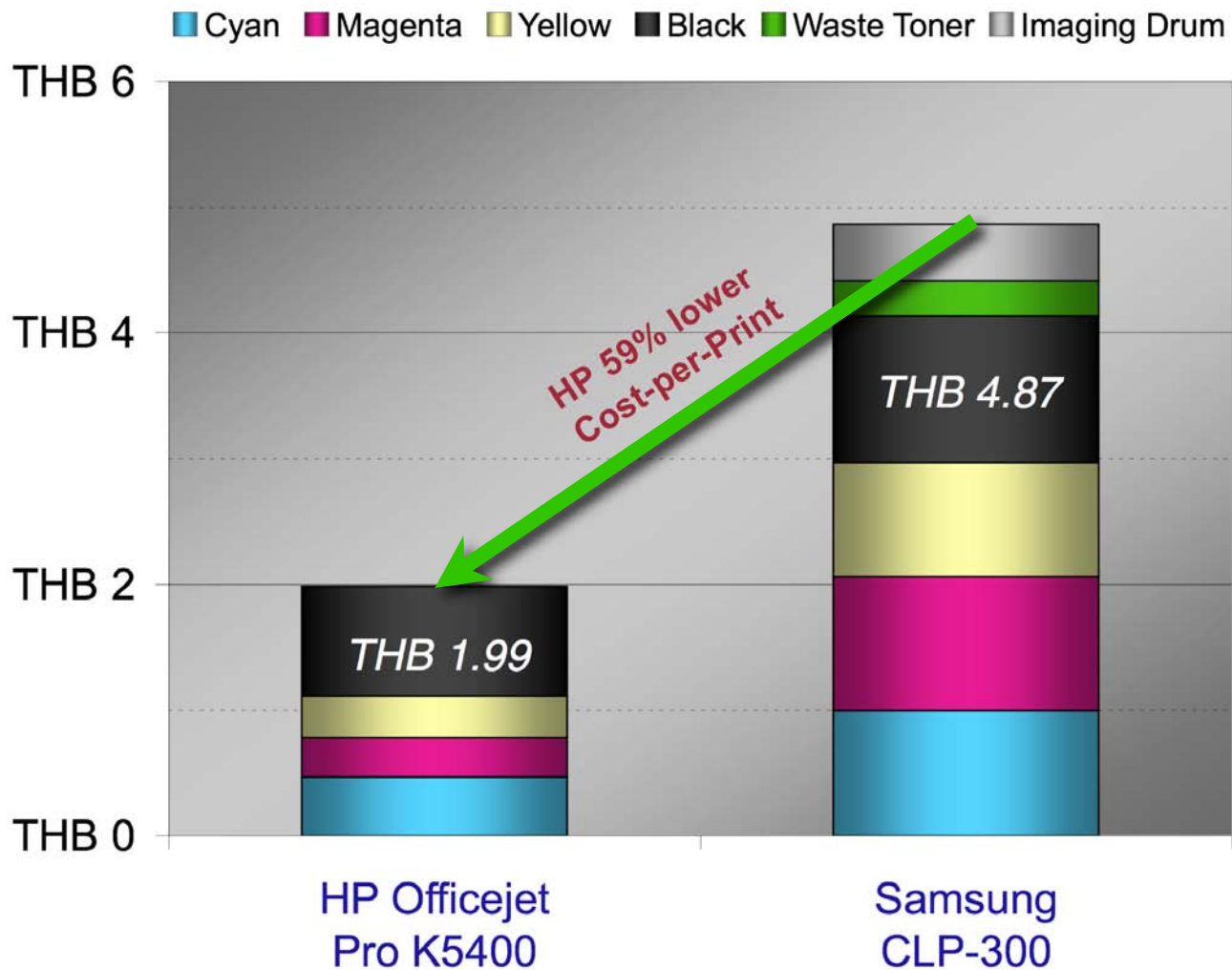


# Cost-per-Print: Thai Baht — HP Officejet Pro K5400 Color Inkjet and Samsung CLP-300 Color Laser Printer

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COST-PER-PRINT TESTED



“Newsletter”  
MIXED TEXT & GRAPHICS



Cost-per-Price includes Ink/Toner and use-replaceable components.  
All testing performed using default driver settings.

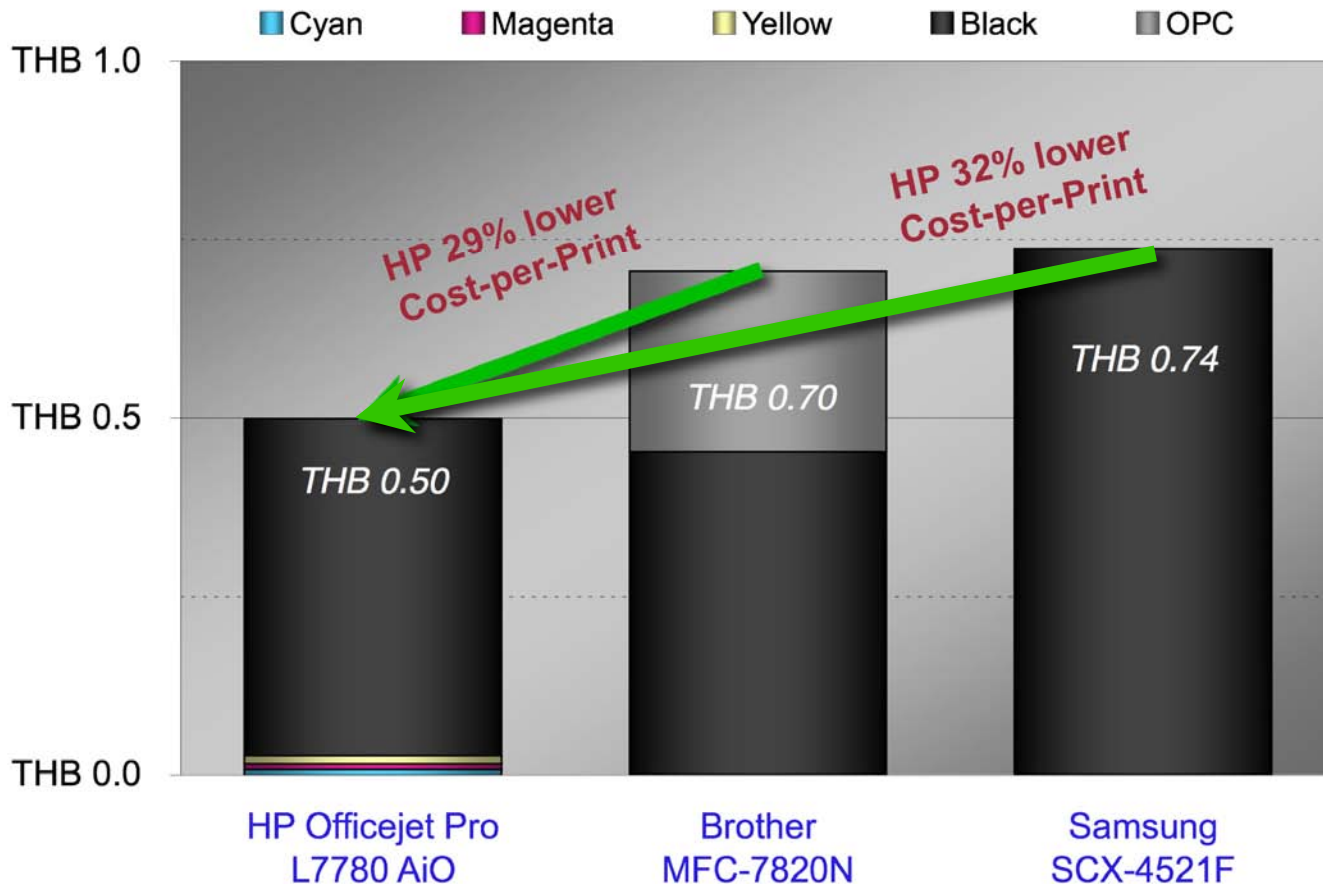


# Cost-per-Print: Thai Baht — HP Officejet Pro L7580 Series Color Inkjet AiO, Brother MFC-7820N, & Samsung SCX-4521F

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COST-PER-PRINT TESTED



ISO/IEC Standard Test Page



HP Officejet Pro L7780 is US model of L7580 series.  
Cost-per-Price includes Ink/Toner and use-replaceable components.  
All testing performed using default driver settings.

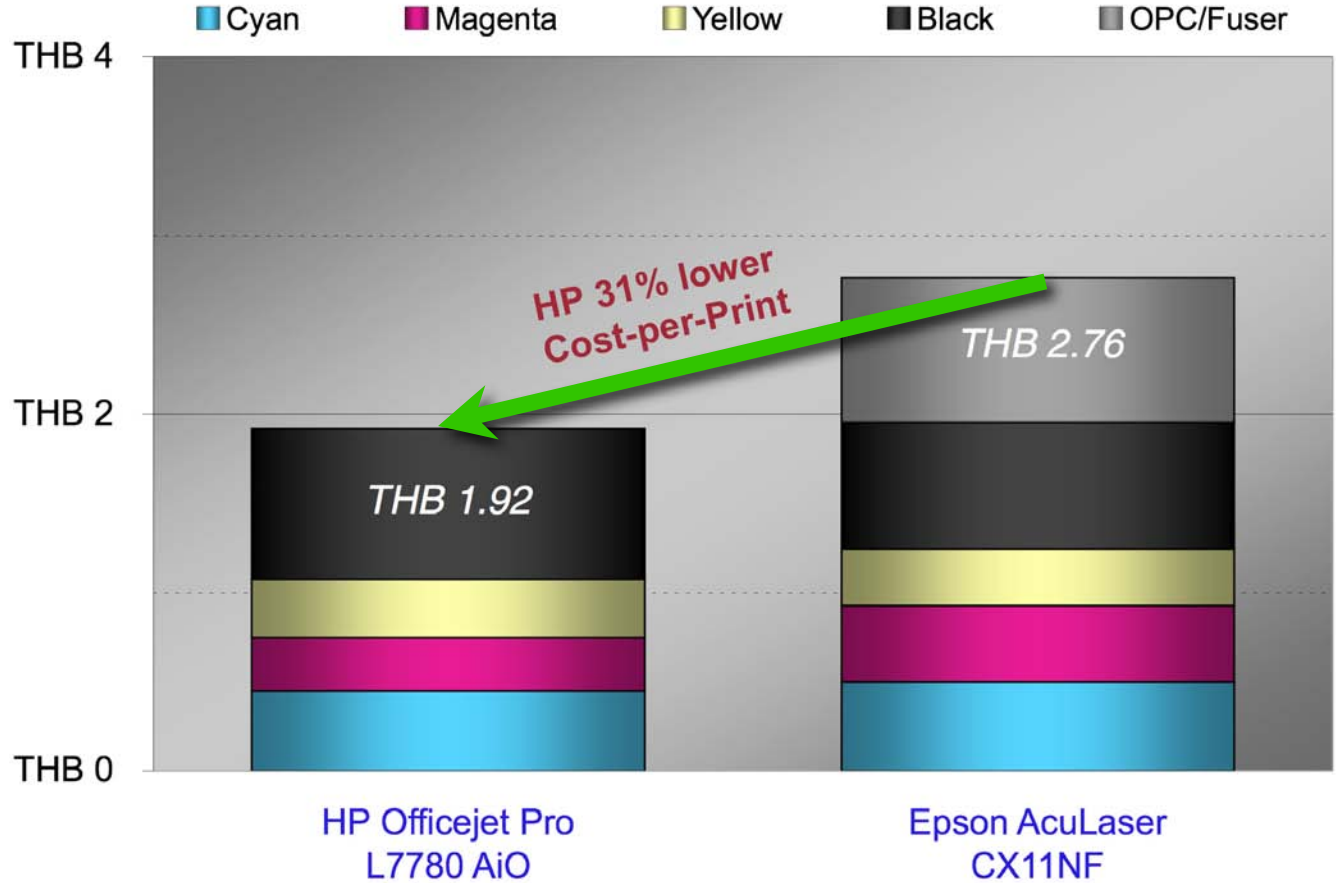


# Cost-per-Print: Thai Baht — HP Officejet Pro L7580 Series Color Inkjet AiO, and Epson AcuLaser CX11NF

**spencerLAB**  
COST-PER-PRINT TESTED



“Newsletter”  
MIXED TEXT & GRAPHICS



HP Officejet Pro L7780 is US model of L7580 series.  
Cost-per-Price includes Ink/Toner and use-replaceable components.  
All testing performed using default driver settings.



# Cost-per-Print — Methodology

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## Determine Ink Cartridge Yields

### Tested Devices

- *HP K5400 printers and L7780 AiOs (US version of L7580 AiO)*
- *Brother MFC-7820N*
- *Epson AcuLaser CX11NF*
- *Samsung ML-1610, Samsung CLP-300, and Samsung SCX-4521F*

### Test Documents

- *Monochrome: ISO/IEC 19752 “Standard” letter document, text with simple black graphics*
- *Color: “SpencerLab Newsletter” with mixed text, graphics, image*

### Measure average number of prints-per-cartridge for each cartridge

- *Test highest capacity OEM ink/toner cartridges available*
  - HP Large Black, Cyan, Magenta and Yellow (88/XL) ink cartridges
  - Brother (TN-350)
  - Epson Black (0190), High Capacity Cyan (0189), Magenta (0188), and Yellow (0187) toner cartridges
  - Samsung (ML-1610D2); Black (CLP-K300A), Cyan (CLP-C300A), Magenta (CLP-M300A), and Yellow (CLP-Y300A); and (SCX-4521D3) toner cartridges
- *Print in DEFAULT mode on plain paper via Adobe Reader 7.0.8*
- *Print semi-continuously to end-of-life on multiple cartridges to assure consistency*
  - Semi-continuously: stops for paper replenishment, overnight, etc.
  - End-of-life: earlier of INK/TONER OUT signal, or visible defects (fade) attributable to toner supply
- *Measure number of usable prints-per-cartridge*



# Cost-per-Print — Methodology (cont'd)

## Determine component Costs

Calculate average ink/toner component costs per print

◦ *Divide each cartridge cost by the corresponding cartridge yield (average prints-per-cartridge)*

Calculate user-replaceable component costs per print

◦ *Include user-replaceable components rated for less than the life of the printer*

- Brother MFC-7820N contains user-replaceable OPC Drum Cartridge
- Epson AcuLaser CX11NF contains user-replaceable Photoconductor Unit
- Samsung CLP-300 contains user-replaceable OPC Drum Cartridge and Waste Toner Container

◦ *Component contributions to total Cost-per-Print based upon manufacturer-rated yields*

COMPONENTS COST		CYAN	MAGENTA	YELLOW	BLACK
HP Officejet Pro K5400/L7580	Ink	THB 795	THB 795	THB 795	THB 1,115
Brother MFC-7820N	Toner	—	—	—	THB 1,435
	OPC	THB 3,020			
Epson AcuLaser CX11NF	Toner	THB 4,050	THB 4,050	THB 4,050	THB 2,835
	OPC	THB 8,500			
Samsung ML-1610	Toner	—	—	—	THB 2,090
Samsung CLP-300	Toner	THB 1,645	THB 1,645	THB 1,645	THB 2,000
	OPC	THB 5,556			
	Waste Toner	THB 367			
Samsung SCX-4521F	Toner	—	—	—	THB 2,840

THB prices (excl. VAT) as of May 2007, per Corporate Reseller (Metro Systems Corporation Public Co, Ltd.) Quote, as supplied by HP

## Calculate Cost-per-Print

Sum per-print component costs to obtain total Cost-per-Print for the test document

Independent testing by SpencerLab Digital Color Laboratory was commissioned by Hewlett-Packard Company

