

Math 90 - Quiz # 6

Name Key

Health Plan A charges \$1000/month, with no additional charge for office visits.

Health Plan B charges \$400/month, with a \$50 copay(charge) for each office visit.

Write and solve an inequality to show when the cost of Plan A is cheaper than B.

Cost A

Cost B

$$1000 < 400 + 5x$$

$x = \# \text{ of visits}$

$$\frac{600}{5} < \frac{5x}{5}$$

$$12 < x \quad ; \quad x > 12$$

Cheaper when # of office visits is >
12 each month