14. If $f(x) = x^2 + 2$, which of the following could be a value of $f(x)$?

    (A) −2
    (B) −1
    (C)   0
    (D)   1
    (E)   2

16. If the perimeter of rectangle $ABCD$ is equal to p, and

    $x = \dfrac{2}{3}y$, what is the value of y in terms of p ?
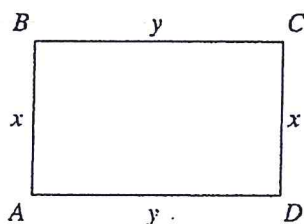
    (A) $\dfrac{p}{10}$

    (B) $\dfrac{3p}{10}$

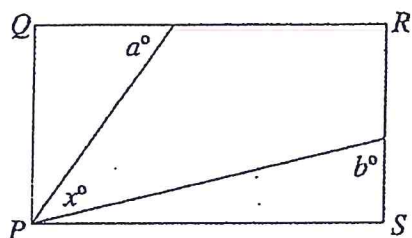   (C) $\dfrac{p}{3}$

    (D) $\dfrac{2p}{5}$

    (E) $\dfrac{3p}{5}$

17. A basketball team had a ratio of wins to losses of 3:1. After the team won six games in a row, its ratio of wins to losses became 5:1. How many games had the team won before winning six games in a row?

    (A)   3
    (B)   6
    (C)   9
    (D)   15
    (E)   24

18. In rectangle $PQRS$ above, what is $a + b$ in terms of x ?

    (A) $90 + x$
    (B) $90 - x$
    (C) $180 + x$
    (D) $270 - x$
    (E) $360 - x$

(14) since $x^2 \geq 0$, $x^2 + 2$ can't be smaller than 2.

$\boxed{E}$

(16) $P = 2x + 2y \longrightarrow P = 2\left(\frac{2}{3}y\right) + 2y$

$3(P) = \left(\frac{4}{3}y + 2y\right)3$

$3p = 4y + 6y$

$3p = 10y \longrightarrow \boxed{y = \frac{3p}{10}}$

$\boxed{B}$

(17) $\frac{W}{L} = \frac{3}{1}$ & $\frac{W+6}{L} = \frac{5}{1}$

$3L = W$ $\qquad$ $5L = W + 6$

$5L = 3L + 6$

$2L = 6$

$L = 3 \longrightarrow \frac{W}{L} = \frac{3}{1}$ becomes

$\frac{W}{3} = \frac{3}{1}$ $\boxed{W = }$

$\boxed{C}$

(18)
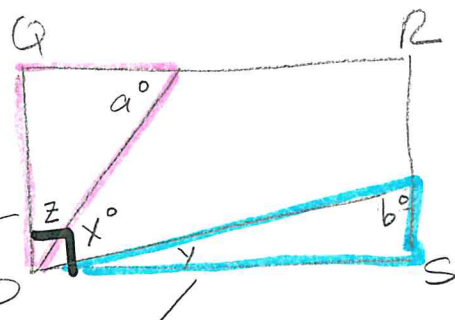
$z = 90° - a°$

$y = 90° - b°$

$x° + y° + z° = 90°$

$x° + 90° - b° + 90 - a° \longrightarrow$ $x° + 180° - a° - b° = 90°$
$\qquad \qquad \qquad \qquad +a° + b° \qquad \qquad +a° + b°$

$x° + 180° = 90° + a° + b°$
$\quad -90° \qquad \quad -90°$

$\boxed{x + 90° = a° + b°}$

$\boxed{A}$