1) $2\pi r = 2 \cdot 3,14 \cdot 1,5 = 9,42$

combustível $= 120 \cdot 6 = 720$

$\dfrac{720}{9,42} = 76,43$ voltas letra c

2) $2 \cdot \pi \cdot r = 2\pi 2 = 4\pi$

$10 \cdot 4\pi = 40\pi$ km letra c

3) $Ac = \pi r^2 = \pi$

$2 \cdot r \leftarrow d = l\sqrt{2}$ 　　$l = \dfrac{2\sqrt{2}}{2}$ 　　$Aqua = (\sqrt{2})^2$

$2 = l\sqrt{2}$ 　　　　　 $l = \sqrt{2}$ 　　　$Aqua = 2$

$l = \dfrac{2}{\sqrt{2}}$

$l = \dfrac{2}{\sqrt{2}} \cdot \dfrac{\sqrt{2}}{\sqrt{2}}$ 　　$Aqua = l^2$ 　　$\pi - 2$

letra d

4) área total do trapézio MNCB

$$A = \frac{(B+b)h}{2}$$

B = 8
b = ?

Semelhança de triângulo.

$$\frac{ab}{am} = \frac{bc}{mn}$$

$$\frac{8}{4} = \frac{8}{x}$$

x = 4

área do trapézio

$$A = \frac{(8+4)4}{2}$$

$$A = \frac{48}{2}$$

$$A = 24 \ lm^2$$

área do círculo   24 - 12,4 = 11,6 lm²

$Ac = \pi \cdot r^2$ letra A
$Ac = 3.1 \cdot 2^2$
$Ac = 12,4 \ /m^2$

6) Lado do quadrado (vmvm):

$x^2 = 100 x = 10$ vmvm

$N = 10 \div 0,02 . 10 10^{-3}$

$N = 5000000$ vírus

$N = 500000 . 5000000 = 25 . 10^{10}$ vírus

letra c

7) A retan $= b . h = 40 . 15 = 600$ vm²

A losan $= \dfrac{D . d}{2} = \dfrac{24 . 12}{2} = \dfrac{288}{2} = 144$ vm²

A lin $= \pi r^2 = 3,14 . 4^2 = 50,24$ vm²

A qua $= l^2 = 3,5^2 = 12,25$ vm²

A retan $- (A$ losan $+ A$ lin $+ A$ qua$)$
$600 - (144 + 50,24 + 12,25)$
$600 - 206,49 = 393,51$ vm²

R$ 2,40

$2,40 . 393,51 = 944,42$ letra c