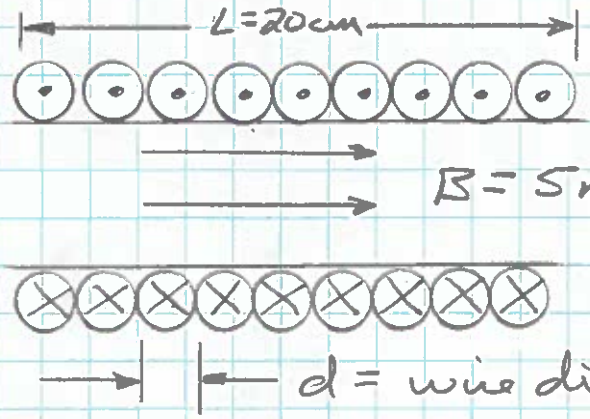
Assume ideal solenoid:



For wires wound tightly: $L = Nd$

For Wire #1: $d_1 = 1.02\,mm$ $I_{max_1} = 6A$

Number of turns, $N_1 = \frac{L}{d_1} = 196$ turns

and

$$B = \mu_0 n I_1 = \frac{\mu_0 N_1 I_1}{L}$$

So: $$I_1 = \frac{BL}{\mu_0 N_1} = 4.06A < I_{max_1}$$

For Wire #2: $d_2 = 0.41\,mm$ $I_{max_2} = 1A$

$$N_2 = \frac{L}{d_2} = 488 \text{ turns}$$

and,

$$I_2 = \frac{BL}{\mu_0 N_2} = 1.63A > I_{max_2}$$

∴ You should use wire #1

and the current should be $I_1 = 4.06A$