CHAPTER 26 HOMEWORK SOLUTIONS

26.2. **IDENTIFY:** It may appear that the meter measures X directly. But note that X is in parallel with three other resistors, so the meter measures the equivalent parallel resistance between ab.
SET UP: We use the formula for resistors in parallel.
EXECUTE: $1/(2.00\ \Omega) = 1/X + 1/(15.0\ \Omega) + 1/(5.0\ \Omega) + 1/(10.0\ \Omega)$, so $X = 7.5\ \Omega$.
EVALUATE: X is *greater* than the equivalent parallel resistance of 2.00 Ω.

26.8. **IDENTIFY:** Eq.(26.2) gives the equivalent resistance of the three resistors in parallel. For resistors in parallel, the voltages are the same and the currents add.
(a) SET UP: The circuit is sketched in Figure 26.8a.

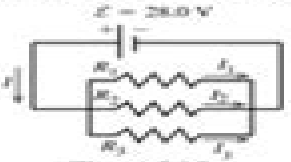

Figure 26.8a

EXECUTE: parallel

$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$\frac{1}{R_{eq}} = \frac{1}{1.60\ \Omega} + \frac{1}{2.40\ \Omega} + \frac{1}{4.80\ \Omega}$$

$$R_{eq} = 0.800\ \Omega$$

(b) For resistors in parallel the voltage is the same across each and equal to the applied voltage:
$V_1 = V_2 = V_3 = \mathcal{E} = 28.0$ V

$V = IR$ so $I_1 = \dfrac{V_1}{R_1} = \dfrac{28.0\ \text{V}}{1.60\ \Omega} = 17.5$ A

$I_2 = \dfrac{V_2}{R_2} = \dfrac{28.0\ \text{V}}{2.40\ \Omega} = 11.7$ A and $I_3 = \dfrac{V_3}{R_3} = \dfrac{28.0\ \text{V}}{4.8\ \Omega} = 5.8$ A

(c) The currents through the resistors add to give the current through the battery:
$I = I_1 + I_2 + I_3 = 17.5\ \text{A} + 11.7\ \text{A} + 5.8\ \text{A} = 35.0$ A

EVALUATE: Alternatively, we can use the equivalent resistance R_{eq} as shown in Figure 26.8b.

Figure 26.8b

$$\mathcal{E} - IR_{eq} = 0$$

$$I = \frac{\mathcal{E}}{R_{eq}} = \frac{28.0\ \text{V}}{0.800\ \Omega} = 35.0\ \text{A},$$

which checks.

(d) As shown in part (b), the voltage across each resistor is 28.0 V.
(e) IDENTIFY and SET UP: We can use any of the three expressions for P: $P = VI = I^2R = V^2/R$. They will all give the same results, if we keep enough significant figures in intermediate calculations.
EXECUTE: Using $P = V^2/R$,

$P_1 = V_1^2/R_1 = \dfrac{(28.0\ \text{V})^2}{1.60\ \Omega} = 490$ W, $P_2 = V_2^2/R_2 = \dfrac{(28.0\ \text{V})^2}{2.40\ \Omega} = 327$ W, and

$P_3 = V_3^2/R_3 = \dfrac{(28.0\ \text{V})^2}{4.80\ \Omega} = 163$ W

EVALUATE: The total power dissipated is $P_{tot} = P_1 + P_2 + P_3 = 980$ W. This is the same as the power $P_{tot} = \mathcal{E}I = (28.0\ \text{V})(35.0\ \text{A}) = 980$ W delivered by the battery.

(f) $P = V^2/R$. The resistors in parallel each have the same voltage, so the power P is largest for the one with the least resistance.

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