SOLUTIONS - Walk Rite Shoe Company

1. In number of pairs:

$$\frac{\text{Fixed costs}}{\text{Contribution margin per pair}} = \frac{\$360,000}{\$9.00} = 40,000 \text{ pairs}$$

In revenues: 40,000 pairs x \$30 = \$1,200,000

2.	Revenues, $$30 \times 35,000$	\$1,050,000
	Variable costs, $$21 \times 35,000$	735,000
	Contribution margin	315,000
	Fixed costs	<u>360,000</u>
	Operating income (loss)	<u>\$ (45,000)</u>

An alternative approach is that 35,000 units is 5,000 units below the breakeven point, and the unit contribution margin is \$9.00:

 $$9.00 \times 5,000 = $45,000 \text{ below the breakeven point}$

3. Fixed costs: \$360,000 + \$81,000 = \$441,000

Contribution margin per pair = \$10.50

- a. Breakeven point in units = $\frac{$441,000}{$10.50}$ = 42,000 pairs
- b. Breakeven point in revenues = $$30 \times 42,000 = $1,260,000$
- 4. Fixed costs = \$360,000

Contribution margin per pair = \$8.70

- a. Breakeven point in units = $\frac{$360,000}{$8.70}$ = 41,380 pairs (rounded up)
- b. Breakeven point in revenues = $$30 \times 41,380 = $1,241,400$
- 5. Breakeven point = 40,000 pairs

Store manager receives commission on 10,000 pairs.

Cost of commission = $$0.30 \times 10,000 = $3,000$

Revenues, $$30 \times 50,000$	\$1,500,000
Variable costs:	

Cost of shoes

\$975,000

Salespeople commission Manager commission 75,000 3,000

1,053,000

Contribution margin Fixed costs

447,000

Operating income

\$ 87,000

An alternative approach is $10,000 \text{ units} \times \$8.70 = \$87,000$