

$$8 \text{ (iii)} \quad 103 \times 98$$

$$= (100 + 3)(100 - 2)$$

$$= 100^2 + (3 - 2)100 + 3(-2)$$

$$= 10000 + 100 - 6$$

$$= 10100 - 6$$

$$= 10094$$

$$8 \text{ (iv)} \quad 9.7 \times 9.8$$

$$= (9 + .7)(9 + .8)$$

$$= 9^2 + (.7 + .8)9 + .7 \times .8$$

$$= 81 + 1.5 \times 9 + 0.56$$

$$= 81 + 13.5 + 0.56$$

$$= 95.06$$

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