

### Extend your thinking

9. Lesa plans to carpet her sunroom with indoor-outdoor carpeting. She measured the room and made a sketch, shown below. When she went to the store, she discovered that the bolts of carpeting are 12 feet wide and cost  $\$22.95/\text{yd}^2$ . The carpet will be attached with double-sided tape around the perimeter and along all seams. A 30-foot roll of double-sided tape costs  $\$4.85$ . Lesa wants to lay out the carpet so the nap is running in the same direction, with the minimum number of seams. What will be the total cost of tape and carpet?

