## Multi-Step Word Problems

1. The Hewitt family is buying carpet for two rooms. The dining room is a square that measures 12 feet on each side. The den is 9 yards by 5 yards. Mrs. Hewitt has budgeted $\$ 2,650$ for carpeting both rooms. The green carpet she is considering costs $\$ 42.75$ per square yard, and the brown carpet's price is $\$ 4.95$ per square foot. What are the ways she can carpet the rooms and stay within her budget?
2. AAA Taxi charges $\$ 1.75$ for the first mile and $\$ 1.05$ for each additional mile. How far could Mrs. Leslie travel for $\$ 20$ if she tips the cab driver $\$ 2.50$ ?

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## Solution A

Mile

1) $\# 1.75+\$ 2.50(+i p)=\$ 4.25$
2) $\$ 4.25+\$ 1.05=\$ 5.30$
c) $\$ 5.30+\$ 4.20=\$ 9.50$
3) $\$ 9.50+\$ 4.20=\$ 13.70$
4) $\$ 13.70+\$ 4.20=\$ 17.90$
5) $\# 17.90+\$ 1.05=\$ 18.95$
6) $\# 18.95+\$ 1.05=\# 20.00$ Mrs. Leslie can travel 16 miles for $\$ 20$.

## Solution B



Mrs. Leslie can go 16 miles.

