# 6.4

# Analyzing Sales Promotions

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i) 
$$2.5 \times \$1.95 = \$ 4.88$$

$$(6.2)(1200) = 8240$$

Jack is buying plywood for his cabinetmaking business. Two lumberyards sell  $\frac{3}{4}$  inch oak plywood for \$79.98 a sheet, but they offer different promotions.

- Promotion 1: spend more than \$500 and get \$100 off
- Promotion 2 15% discount off entire purchase → 85%

Which promotion is better for Jack if he needs 8 sheets? if he needs 16 sheets?

1 If Jack needs 8 sheets of plywood to make new cabinets, which promotion will save him the most money?

\$79.98 × 8 sheets = \$ 639.84

Promotion 1: \$ 639.84 - \$ 100 = \$ 539.84

Promotion 2:  $\$ 639.84 \times 0.85 = \$ 543.86$ 

Promotion \_\_\_\_ saves Jack the most money if he buys

8 sheets.

Jack is buying plywood for his cabinetmaking business. Two lumberyards sell  $\frac{3}{4}$  inch oak plywood for \$79.98 a sheet, but they offer different promotions.

- Promotion 1: spend more than \$500 and get \$100 off
- Promotion 2: 15% discount off entire purchase

Which promotion is better for Jack if he needs 8 sheets? if he needs 16 sheets?

If Jack wanted to buy 16 sheets of plywood, which option would save him the most money?

 $$79.98 \times 16 \text{ sheets} = $1279.68$ 

Promotion 1: \$ 1279.68 - \$ 100 = \$ 1179.68

Promotion 2:  $\$1279.68 \times 0.85 = \$10.87.73$ 

Promotion \_\_\_\_ saves Jack the most money if he buys 16 sheets.

### **Example**

Kristin is buying six watches as gifts for her friends. The store has two promotions to choose from for watches with a regular price of \$12 each.

- The real deals buy one, get one half price
- The big discount:  $\frac{1}{3}$  off the purchase

Which promotion should Kristin choose?



#### **Solution**

Calculate the price for each promotion.

The real deal:  $$12 \times 3 + $$   $6 \times 3 = $$  54

The big discount:  $$12 \times 6 - \frac{1}{3}($12 \times 6) = $$ 

Kristin should choose the big discount.

