

Chapter 2 Gifted and Enrichment Answers

- Answers will vary.
- Answers will vary but should include such expenses as rent, groceries, clothing, phone, cable, Internet, transportation.

3. Answers will vary.

4. chips: $5 \times 2.99 = 14.95$
 PST: $14.95 \times 0.05 \approx 0.75$
 total: $14.95 + 0.75 = 15.70$

crackers: $4 \times 3.19 = 12.76$

cheddar cheese: $0.8 \text{ kg} = 800 \text{ g}$
 $8 \times 0.79 = 6.32$

mozzarella cheese: $0.75 \text{ kg} = 750 \text{ g}$
 $7.5 \times 1.29 \approx 9.68$

Monterey Jack cheese: $0.6 \text{ kg} = 600 \text{ g}$
 $6 \times 1.47 = 8.82$

nacho chips: $6 \times 4.08 = 24.48$
 PST: $24.48 \times 0.05 \approx 1.22$
 total: $24.48 + 1.22 = 25.70$

cola: 24 cans = 4 packages of 6 cans
 $4 \times 1.49 = 5.96$
 PST: $5.96 \times 0.05 \approx 0.30$
 deposit: $24 \times 0.05 = 1.20$
 recycling fee: $24 \times 0.04 = 0.96$
 total: $5.96 + 0.30 + 1.20 + 0.96 = 8.42$

ginger ale: 18 cans = 3 packages of 6 cans
 $3 \times 1.89 = 5.67$
 PST: $5.67 \times 0.05 \approx 0.28$
 deposit: $18 \times 0.05 = 0.90$
 recycling fee: $18 \times 0.04 = 0.72$
 total: $5.67 + 0.28 + 0.90 + 0.72 = 7.57$

Total Cost = \$94.97

5. hotdog buns: $8 \times 0.25 = 2.00$
 wieners: $8 \times 0.62 = 4.96$
 pancake mix: $2 \times 4.12 = 8.24$
 powdered milk: $2 \times 4.57 = 9.14$
 bacon: $3 \times 3.76 = 11.28$
 macaroni and cheese: $4 \times 0.79 = 3.16$
 tomatoes: $2.47 \times 0.98 \approx 2.42$
 lettuce: $3.76 \times 0.38 \approx 1.43$
 carrots: $3.05 \times 0.46 \approx 1.40$

Total Cost = \$44.03

Divide the total cost into seven equal parts. Mary will pay one part and each of the others will pay two parts.

$$44.03 \div 7 = 6.29$$

$$6.29 \times 2 = 12.58$$

Mary will pay \$6.29 and each of the others will pay \$12.58.

6.

Time Improvement (s)	Percent Improvement (rounded)
28.54	19.41%
27.47	9.11%
31.25	19.13%

Abraham has improved the most.