



Name: _____

Block: _____

What would you prefer to do?

a. $8(13)$ or $13(8)$ _____

Property Used: _____

Why? _____

b. $8(13)$ or $8(10)$ and $8(3)$ _____

Property Used: _____

Why? _____

c. $55 + 48$ or $50 + 40$ and $5 + 8$ _____

Why? _____

d. $55 + 48$ or $50 + 40 + 10 + 3$ _____

Why? _____

e. $(8 + 7) + 3$ or $8 + (7 + 3)$ _____

Property Used: _____

Why? _____

What number can you add to any number like "13" and not change it? _____

What is this property? _____

What number can you multiply to any number like "27" and not change it? _____

What is this property? _____

Baird's Gym

Plan 1: Baird Day Pay Special – Pay only \$8 each time you visit.

Plan 2: Baird Special – Pay \$55 per month and \$3 per visit.

Plan 3: Baird Buster Special – Pay \$100 per month for unlimited use.

1. Juan thinks he will go to the gym about 10 times a month.

a. Calculate how much each plan would cost.



Plan 1: Baird Day Pay Special

Plan 2: Baird Special

Plan 3: Baird Buster Special

b. Which of these options is the least expensive for Juan?

2. Juan thinks he will go to the gym about 20 times a month.

a. Calculate how much each plan would cost.

Plan 1: Baird Day Pay Special

Plan 2: Baird Special

Plan 3: Baird Buster Special

b. Which of these options is the least expensive for Juan?

3. Juan thinks he will go to the gym about 13 times a month.

a. Calculate how much each plan would cost.

Plan 1: Baird Day Pay Special

Plan 2: Baird Special

Plan 3: Baird Buster Special

b. Calculate how much the Baird Day Special will cost using distributive property.

c. Which of these options is the least expensive for Juan?

4. How many visits would Juan have to go to Baird's Gym to make it worth it for him to purchase the Baird Special Plan?

Explain how you figured this out.

5. How many visits would Juan have to go to Baird's Gym to make the cost of Baird Special and Baird Buster Special be the same? _____

Explain how you figured this out.

6. If the number of visits is represented by "v", write an expression for each plan.

Plan 1: Baird Day Pay Special _____

Plan 2: Baird Special _____

Plan 3: Baird Buster Special _____

7. How often would you visit the Baird Gym in a month? _____

Use the expressions that you created above and evaluate how much each plan would cost?

v = _____

Plan 1: Baird Day Pay Special _____

Plan 2: Baird Special _____

Plan 3: Baird Buster Special _____

Which plan would you choose? _____