

# EDUCATION DAY WORKSHEET 6-8

PRESENTED BY



**Unitil**  
energy for life

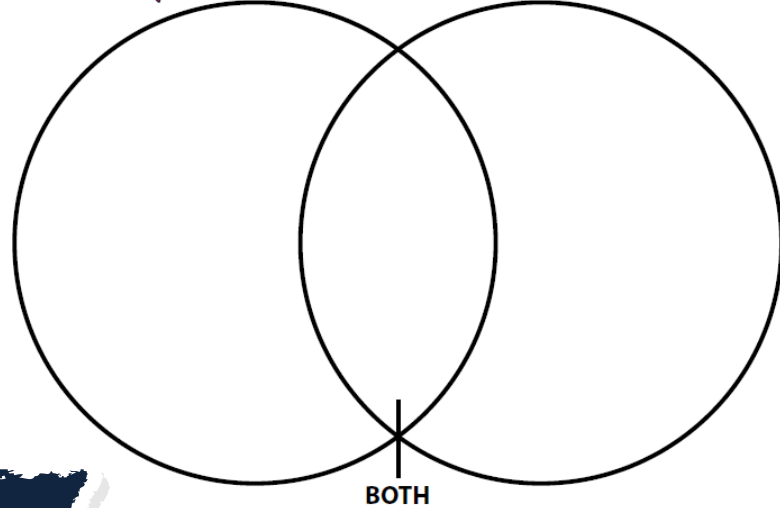
## QUESTION #1

THE SEA DOGS PLAY THE YARD GOATS THROUGHOUT THE SEASON. SEALS AND GOATS HAVE MUCH IN COMMON BUT ALSO MANY DIFFERENCES. IDENTIFY WHICH OF THESE STATEMENTS BELONG TO SEALS, GOATS OR BOTH IN THE VENN DIAGRAM BELOW

1. GIVES BIRTH TO LIVE YOUNG
2. IS A PINNIPED
3. CLOSELY RELATED TO SHEEP
4. LIVES IN THE MOUNTAINS
5. PRIMARILY EATS FISH
6. HAS A FOUR-CHAMBERED STOMACH
7. OFFSPRING IS KNOWN AS KIDS
8. DOES NOT CHEW ITS FOOD
9. GROUP OF THIS ANIMAL IS CALLED A HERD
10. HAS BLUBBER

*Sea Dogs*

*Hartford Yard Goats*



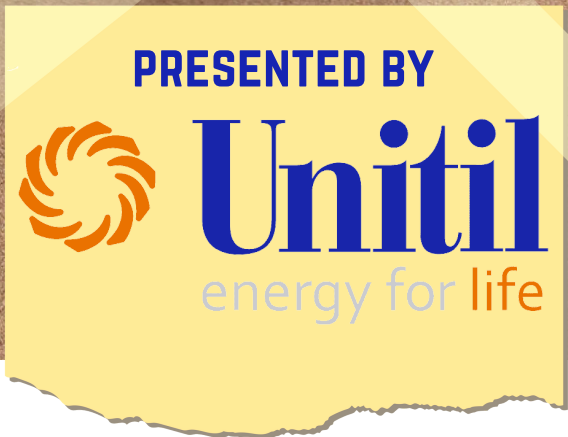
## QUESTION #2

A BASEBALL HAS A MASS OF 150G. HOW MUCH FORCE WOULD BE REQUIRED TO ACCELERATE THE BALL AT A RATE OF 44.7 M/S<sup>2</sup>? (REMEMBER  $F=M \times A$ )

A BALL ROLLING ON THE GRASS HAS MORE FRICTION THAN A BALL ROLLING ON INFIELD DIRT. TRUE OR FALSE? EXPLAIN WHY

A BASEBALL IS FALLING WITH A FORCE OF 6N WHILE THE UPWARD FORCE OF AIR RESISTANCE IS 1.5N. WHAT IS THE NET FORCE? IS IT AT TERMINAL VELOCITY OR ACCELERATING? EXPLAIN WHY

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## QUESTION #3

**BASED ON THE SCENARIO BELOW, ANSWER THE FOLLOWING QUESTIONS:**

ON YOUR WAY TO THE GAME, YOU STOP BY THE BANK AND WITHDRAW \$100.00. DURING THE 1ST INNING, YOU STOP BY THE CONCESSIONS STAND AND BUY FRENCH FRIES AND A SPRITE. AFTER THE 5TH INNING, YOU VISIT THE SOUVENIR STORE AND PURCHASE A BASEBALL. ON YOUR WAY BACK TO YOUR SEAT, YOU STOP AT THE CONCESSIONS STAND AND PURCHASE A HOT DOG AND PEANUTS. DURING THE 7TH INNING STRETCH, YOU NEED TO COOL OFF AND BUY SOME ICE CREAM. AFTER THE SEA DOGS VICTOR, YOU STOP BACK AT THE SOUVENIR STORE AND PURCHASE A NEW T-SHIRT

WHAT DID YOU SPEND AT THE SEA DOGS GAME?

\_\_\_\_\_

IF YOU WERE TO DEPOSIT THE REMAINING AMOUNT TO YOUR BANK, HOW MUCH WOULD IT BE?

\_\_\_\_\_

Sea Dogs Prices		
Hot Dog - \$3.25	Bottled Soda - \$3.25	T-Shirt - \$18.00
Ice Cream - \$4.25	French Fries - \$5.00	Hat - \$20.00
Peanuts - \$3.25	Popcorn - \$4.75	Baseball - \$11.00

IF YOU HAD \$16.00 AND HAD YOU BUY 3 ITEMS ON THE MENU AND GET AS CLOSE TO \$16.00 AS POSSIBLE WITHOUT SPENDING OVER, WHAT WOULD YOU BUY?

\_\_\_\_\_

## QUESTION #4

**USE THE DIAGRAM OF HOME PLATE TO ANSWER THE FOLLOWING:**

WHAT IS THE PERIMETER OF HOME PLATE?

\_\_\_\_\_

WHAT IS THE AREA?

\_\_\_\_\_

WHAT ARE THE DEGREES OF THE HOME PLATE ANGLES?

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

