Data
Literacy
Workbook

01

Directions:

1. PHC4's Workbook is designed to advance automatically.

2. The answers will display when the timer expires.

3. At the end of each section you may return to the learning sytem.

DATA LITERACY WORKBOOK

Categories
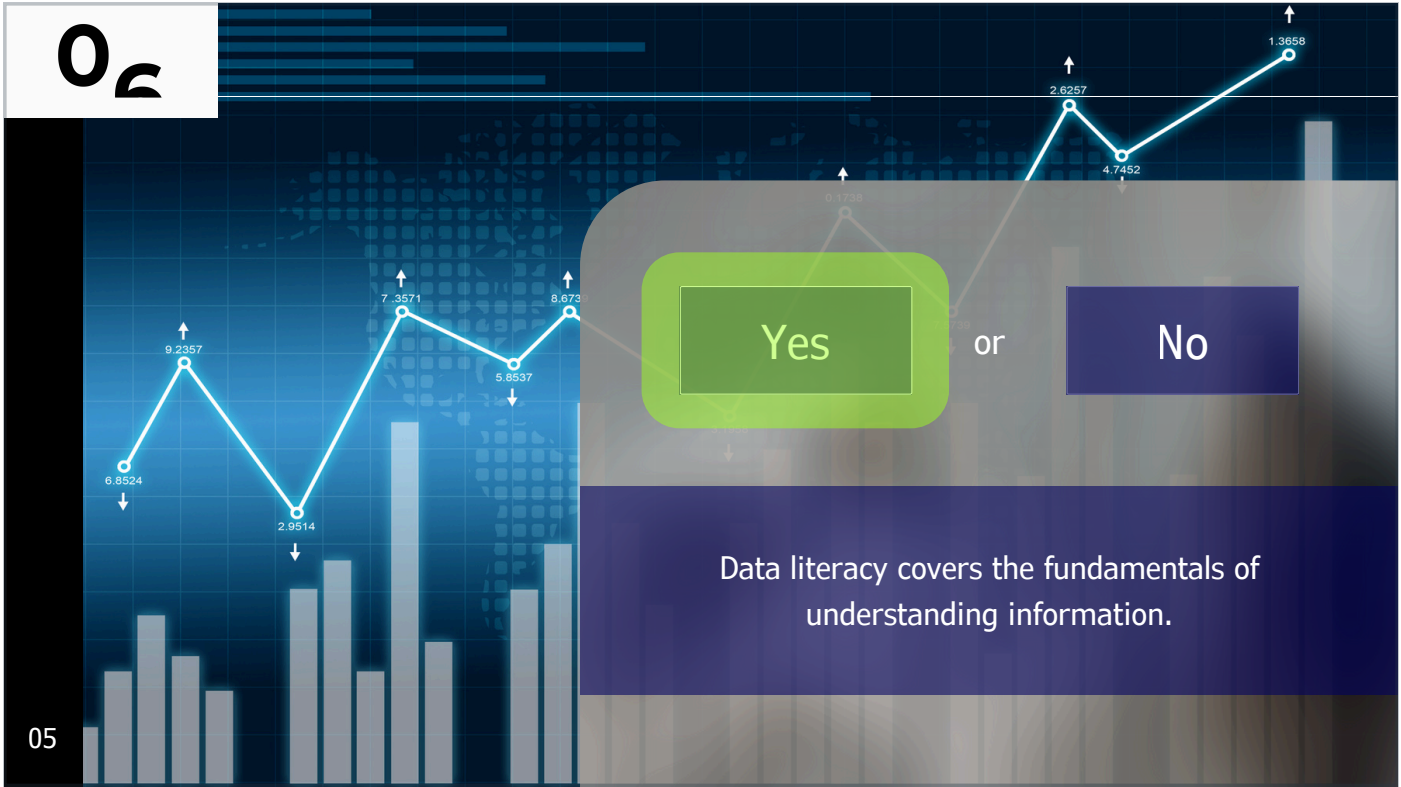
YES / NO

TRUE / FALSE

VIDEO QUESTION

MULTIPLE CHOICE

PART 1

A Foundation of Fluency

Yes or No

Data literacy covers the fundamentals of understanding information.

True or False

Evaluating data sources, identifying biases, and recognizing potential limitations of data analysis is important.

06

05

True or **False**

Verifying the collection method of data within a study does not help identify the validity of the data.

Workbook
Complete, Part 1

Thank You

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PHC4
Transparent Health Care Reporting

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PART 2

Interpreting Data

0₆

ANALYZE

ENGAGE

REASON

UNDERSTAND

These are the four pillars of interpreting data.

True or False
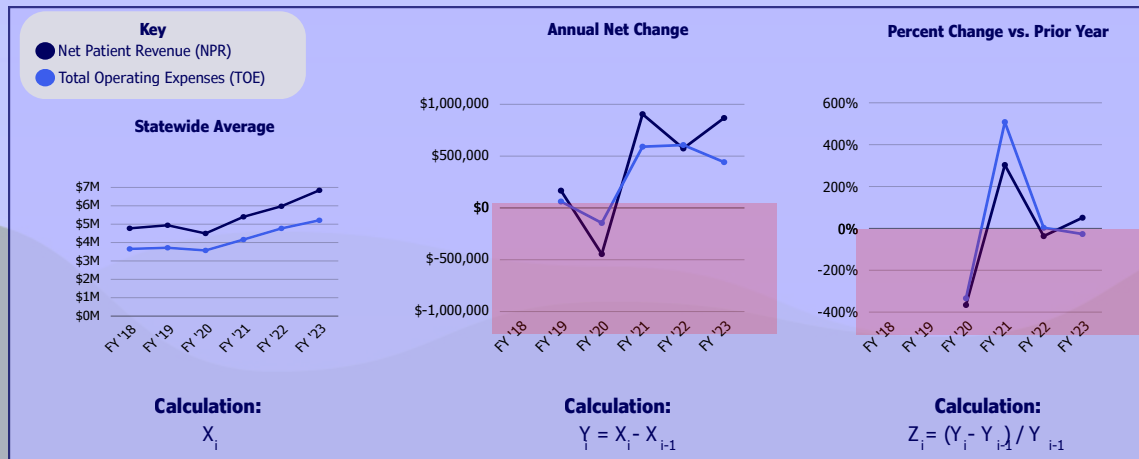
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05

These three graphs, show the same data can be manipulated in different ways to communicate multiple messages:

TRUE	FALSE

Key
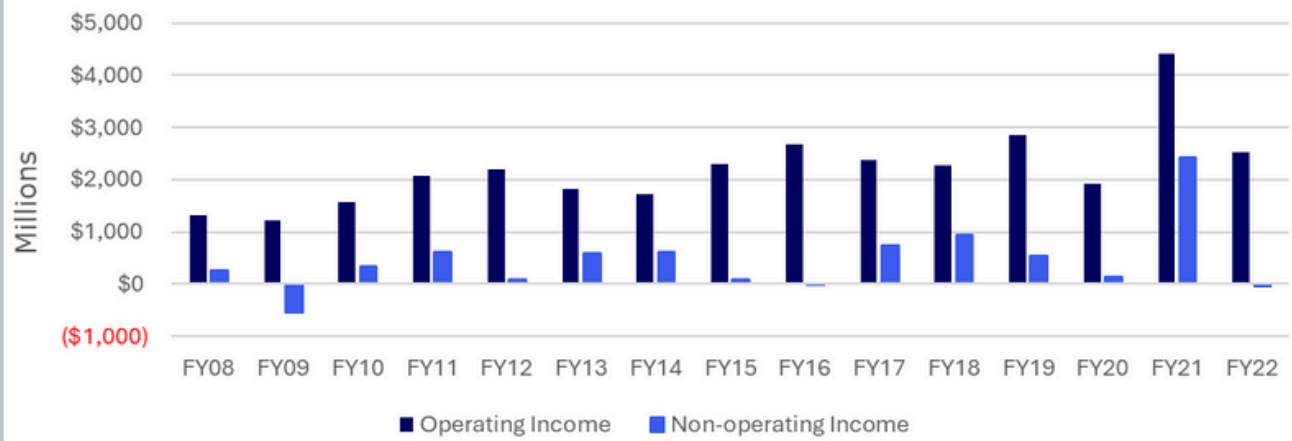● Net Patient Revenue (NPR)
● Total Operating Expenses (TOE)

Statewide Average

Annual Net Change

Percent Change vs. Prior Year

Calculation:

X_i

Calculation:

$Y_i = X_i - X_{i-1}$

Calculation:

$Z_i = (Y_i - Y_{i-1}) / Y_{i-1}$

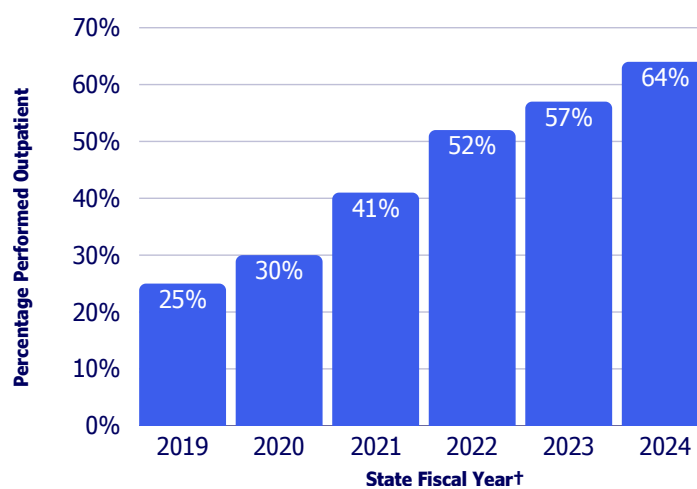This visualization displays operating and non-operating income as a percentage.

TRUE

FALSE

FOUR

SIX

THREE

FIVE

Figure 1. Percentage of Prostate Cancer Surgery Performed in an Outpatient Setting

State Fiscal Year†	Percentage Performed Outpatient
2019	25%
2020	30%
2021	41%
2022	52%
2023	57%
2024	64%

† State fiscal years reflect twelve consecutive months beginning in July and ending in June.

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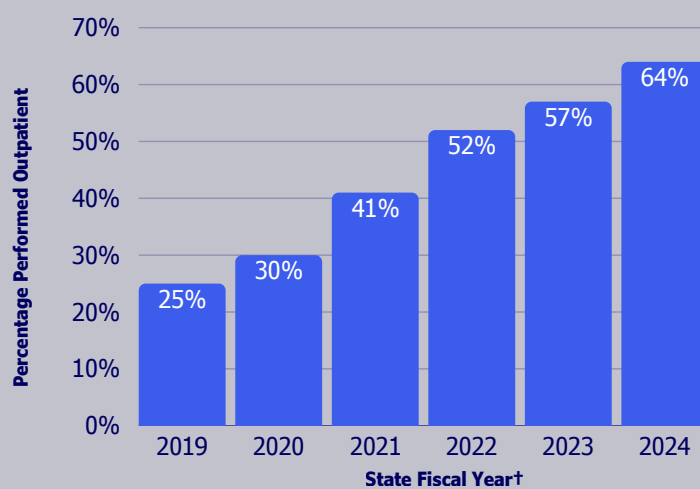The visualization represents _____ on the X axis.

STATE FISCAL YEAR

CANCER SURGERY

PERCENTAGE PERFORMED

OUTPATIENT SETTING

Figure 1. Percentage of Prostate Cancer Surgery Performed in an Outpatient Setting

Percentage Performed Outpatient

- 2019: 25%
- 2020: 30%
- 2021: 41%
- 2022: 52%
- 2023: 57%
- 2024: 64%

State Fiscal Year†

† State fiscal years reflect twelve consecutive months beginning in July and ending in June.

Workbook
Complete, Part 2

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Thank You

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PART 3

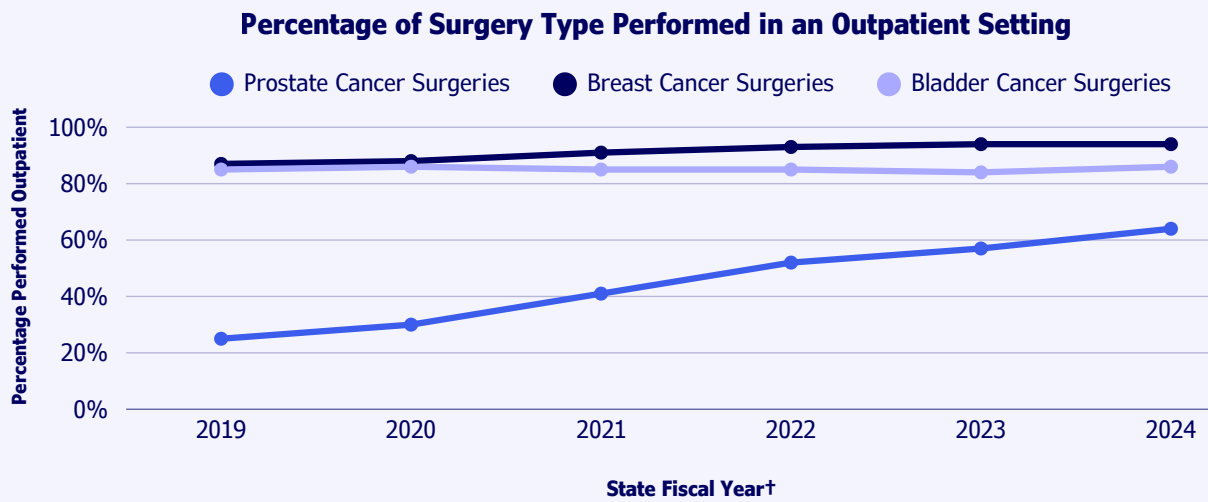# Communicating Visualizations and Data

The definition of State Fiscal Year† is necessary for this visualization to be effectively communicated.

YES　　　　　**NO**

Percentage of Surgery Type Performed in an Outpatient Setting

● Prostate Cancer Surgeries　　● Breast Cancer Surgeries　　● Bladder Cancer Surgeries

Percentage Performed Outpatient (y-axis): 0%, 20%, 40%, 60%, 80%, 100%

State Fiscal Year†
† State fiscal years reflect twelve consecutive months beginning in July and ending in June.

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Percentage of Surgery Type Performed in an Outpatient Setting

● Prostate Cancer Surgeries   ● Breast Cancer Surgeries   ● Bladder Cancer Surgeries

Percentage Performed Outpatient

	2019	2020	2021	2022	2023	2024

State Fiscal Year†

† State fiscal years reflect twelve consecutive months beginning in July and ending in June.

**This time period would be most appropriate for the general population.**

YES   NO

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The below visualization has all the necessary components needed to transferrable amongst populations, while remaining transparent.

TRUE　　　　**FALSE**

● Prostate Cancer Surgeries　　● Breast Cancer Surgeries　　● Bladder Cancer Surgeries

100%

80%

60%

40%

20%

0%

　　2019　　2020　　2021　　2022　　2023　　2024

State Fiscal Year†
† State fiscal years reflect twelve consecutive months beginning in July and ending in June.
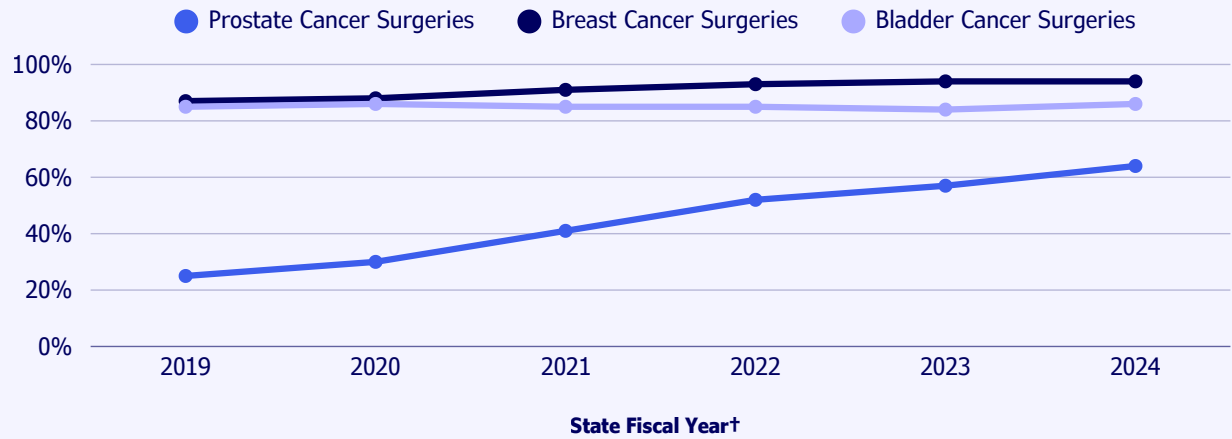
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Once I know my data source is factual and trustworthy, and I know how to measure my topic of interest, the next delivery detail I need to consider is:

SETTING

SUPPORTING ARGUMENTS

DISCUSSION TYPE

TARGET AUDIENCE

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06

Given the blank table and randomized details below, how would you place each detail of delivery in order to correctly complete the table? We will place the first few together.

Details of Delivery						
Data Source	Unit of Measurement	Target Audience	Desired Outcome	Setting	Discussion Type	Supporting Arguments
CDC Prediabetes Risk Test	Risk Score from 1 to 10	Patients	Healthier Habits and Lower Risk of Diabetes	Practice Exam Room	Patient Advice	Historical Patient Risk Scores

Historical Patient Risk Scores

Patients

Patient Advice

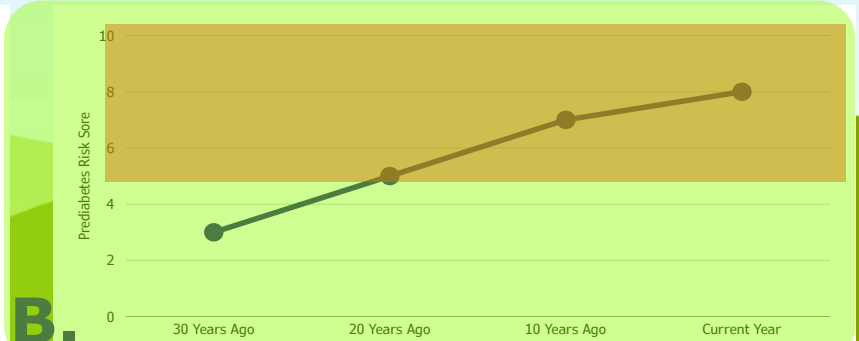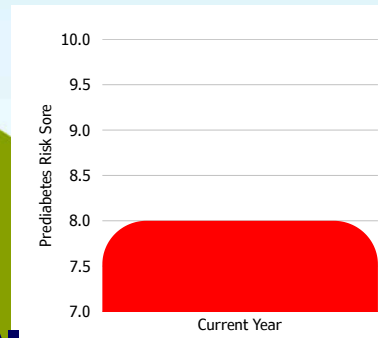Risk Score from 1 to 10

Practice Exam Room

CDC Prediabetes Risk Test

Healthier Habits and Lower Risk of Diabetes

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06 Using the example previously given, can you determine if visualization A or B is more appropriate for your use?

Details of Delivery						
Data Source	**Unit of Measurement**	**Target Audience**	**Desired Outcome**	**Setting**	**Discussion Type**	**Supporting Arguments**
CDC Prediabetes Risk Test	Risk Score from 1 to 10	Patients	Healthier Habits and Lower Risk of Diabetes	Practice Exam Room	Patient Advice	Historical Patient Risk Scores

A.

B.

Workbook
Complete, Part 3

Thank You

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