



What is Data?

Learning Objective(s)

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This material should address the following question.

➤ What is data?

Discussion Point

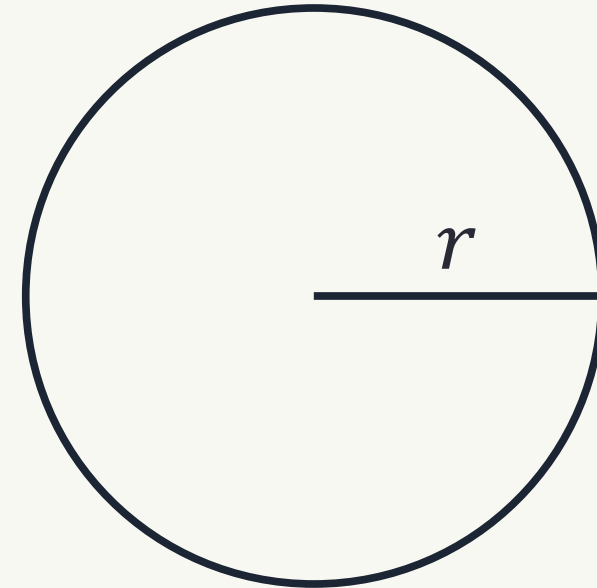
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Data:
The Core Concepts.



Problem

- Say, we want to calculate the **area** of a circle.
- The formula is as follow:
$$A = \pi r^2$$
 - π is 3.14 constant,
 - r is the circle's radius, and
 - A is the calculated area.





Problem

E.g. the area of a circle with radius 5cm is 78.54cm².

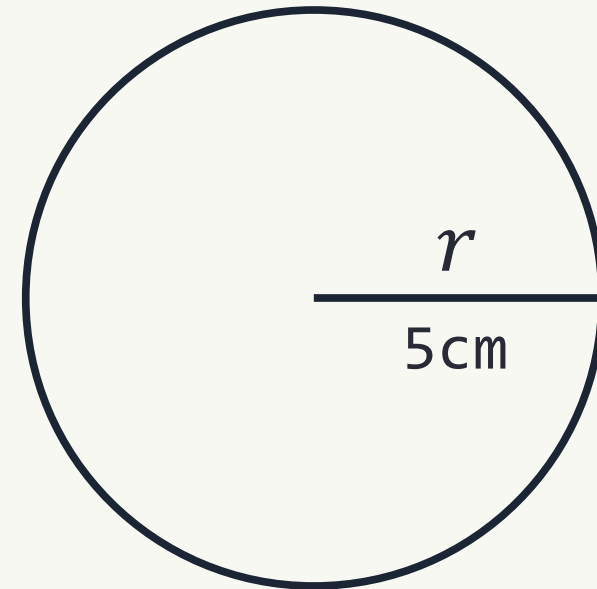


What data is required and produced during the area calculation?



Two data is required, π and r . The calculation produces A , the area.

$$\pi \rightarrow 3.14$$





Question

What is **data**?

Definition

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Data is a valuable fact.

Sometimes, it is described with metric e.g. kg, cm², etc.

Final Thoughts.



Conclusion

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1. Data is a valuable **fact**, it is quantifiable.
2. A data may consist of the value and its metric.
 - In programming, we tend to put more focus on the value.



References



Wassberg, J. (2020). Computer Programming for Absolute Beginners. Packt.



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