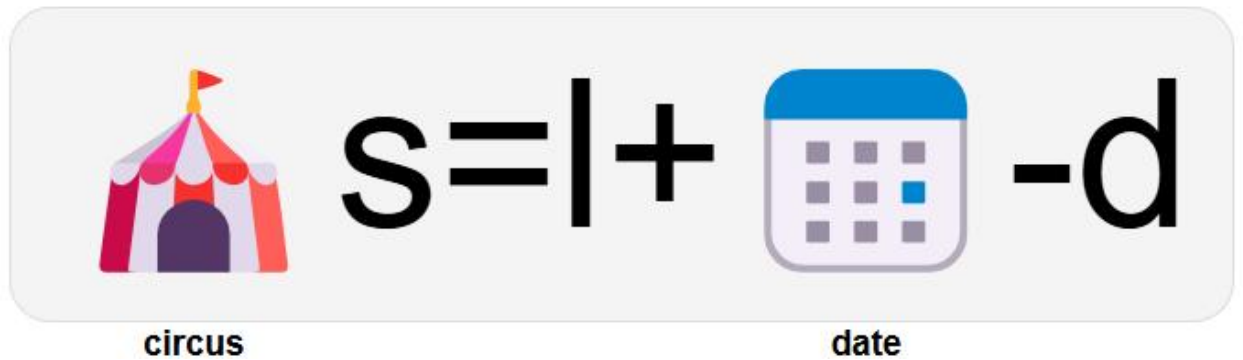


## WATER HEATERS: OTHER

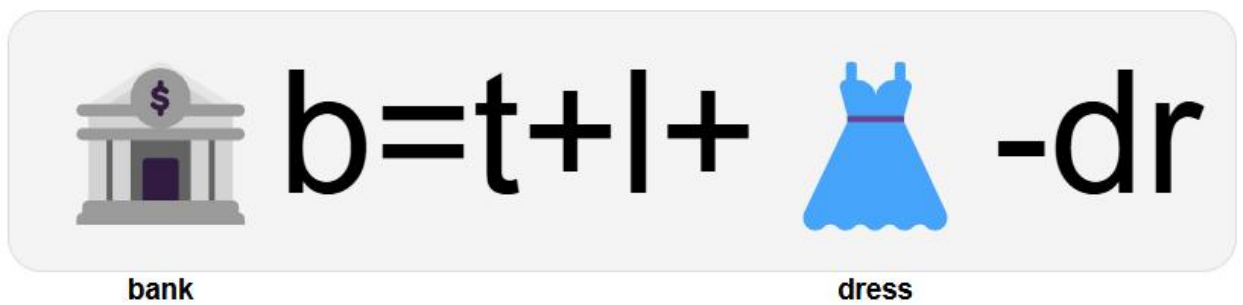
### 23.1. Vocabulary

*Ex. 1. Solve the rebus puzzle.*

1.



2.





3.



 -ra+ 
  r=l+ 
  h=l+i+ 
  x=n





rain                      star                      hat                      ox

4.

v+ 
  
 x=l+ 
  p=m+e

ox                      up

5.

 -ra+s+ 
  s=t+ 
  y=e 
  b=o

rain                      santa                      ny                      bus

*Ex. 2. Complete the sentences with the given words.*

**circulate, circulating pump, conserve, installation costs, instantaneous, point-of-use water heater, solar collector, solar water heater, tankless water heater, volume**

1. The \_\_\_\_\_ pump helps to circulate hot water throughout the system efficiently.
2. Installing a \_\_\_\_\_ water heater can significantly conserve energy and reduce utility bills.
3. The \_\_\_\_\_ costs of a tankless water heater can be higher, but it saves space.
4. An \_\_\_\_\_ water heater provides hot water on demand without a storage tank.
5. A \_\_\_\_\_ water heater is ideal for small spaces like under a sink.
6. The solar \_\_\_\_\_ absorbs sunlight to heat water in a solar water heater.
7. Unlike traditional models, a \_\_\_\_\_ water heater heats water only when needed.

8. \_\_\_\_\_ capacity is an important factor when choosing a water heater for your home.
9. To \_\_\_\_\_ energy, consider using a water heater with a high-efficiency rating.
10. The solar water heater relies on natural energy, making it an \_\_\_\_\_ option.

## 23.2. Reading

### *Ex. 1. Read the text.*

When exploring water heaters beyond the traditional electric and gas options, several innovative alternatives stand out. One popular choice is the solar water heater, which harnesses the power of the sun to heat water. Solar collectors, typically installed on rooftops, absorb sunlight and convert it into thermal energy. This eco-friendly option not only reduces energy bills but also minimizes carbon footprint, making it a sustainable choice for environmentally conscious consumers.

Another option is the heat pump water heater. Unlike conventional heaters, heat pumps transfer heat from the air or ground to the water, using electricity more efficiently. They are particularly effective in moderate climates and can significantly lower energy consumption compared to electric resistance heaters.

Tankless water heaters, or on-demand heaters, are gaining popularity due to their compact size and efficiency. They heat water only when needed, eliminating the need for a storage tank. This reduces standby heat loss and provides a continuous supply of hot water, making them ideal for households with high hot water demand.

For small spaces or specific applications, point-of-use water heaters are a convenient solution. Installed near fixtures like sinks or showers, they provide immediate hot water without the wait, enhancing comfort and convenience.

These alternatives offer diverse benefits, from energy efficiency to space-saving designs, providing plumbers with a range of options to meet varying customer needs. Understanding these systems is crucial for modern plumbing professionals aiming to deliver optimal solutions for their clients.

### *Ex. 2. Answer the questions.*

1. What is the primary energy source for solar water heaters?

2. How do heat pump water heaters differ from conventional heaters in their operation?
3. What is a key environmental benefit of using solar water heaters?
4. Why are tankless water heaters considered efficient?
5. In what type of climate are heat pump water heaters most effective?
6. What advantage do point-of-use water heaters offer for specific applications?
7. Why is it important for plumbing professionals to understand different types of water heaters?

### **23.3. Communication**

*Ex. 1. Make sentences using the following words.*

1. Water/heaters/hot
2. You/have/home
3. Important/maintain/regularly
4. Save/energy/used
5. Often/should/serviced
6. Come/different/types
7. Ever/repaired/before
8. Last/many/years
9. Temperature/best/water
10. Turn/off/needed