

Name: \_\_\_\_\_

Class/Period: \_\_\_\_\_

Assignment: 9-26 and 9-27

Teacher: Thibodeau

1 According to the wave-mechanical model of the atom, electrons are located in

- 1 orbitals
- 2 circular paths
- 3 a small, dense nucleus
- 4 a hard, invisible sphere

2 Which conclusion was drawn from the results of the gold foil experiment?

- 1 An atom is electrically neutral.
- 2 An atom is mostly empty space.
- 3 The nucleus of an atom is negatively charged.
- 4 The electrons in an atom are located in specific shells.

3 According to the wave-mechanical model, an orbital is defined as the

- 1 circular path for electrons
- 2 circular path for neutrons
- 3 most probable location of electrons
- 4 most probable location of neutrons

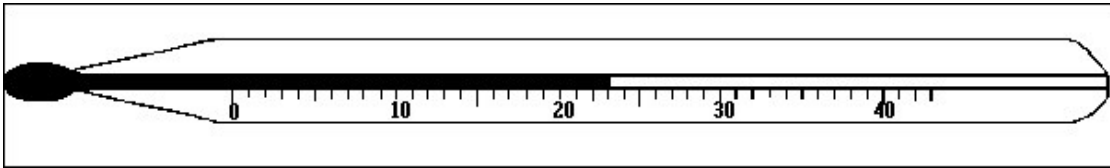
4 The diagram shows the measurements of two fish.



The difference in length between fish *A* and *B* is

- 1 2 cm
- 2 2 mm
- 3 2 inches
- 4 2 m

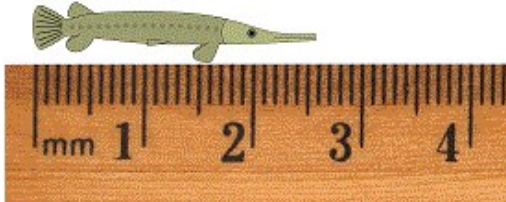
5 The diagram shows a part of a Celsius thermometer.



What is the temperature in degrees Celsius shown on the thermometer?

- 1 20.3
- 2 23.0
- 3 30.7
- 4 37.0

6 Arlo measured a fish, as shown in the diagram.



What is the length of the fish in millimeters? (1 cm = 10 mm)

- 1 2.60 mm
- 2 26.0 mm
- 3 260 mm
- 4 2,600 mm