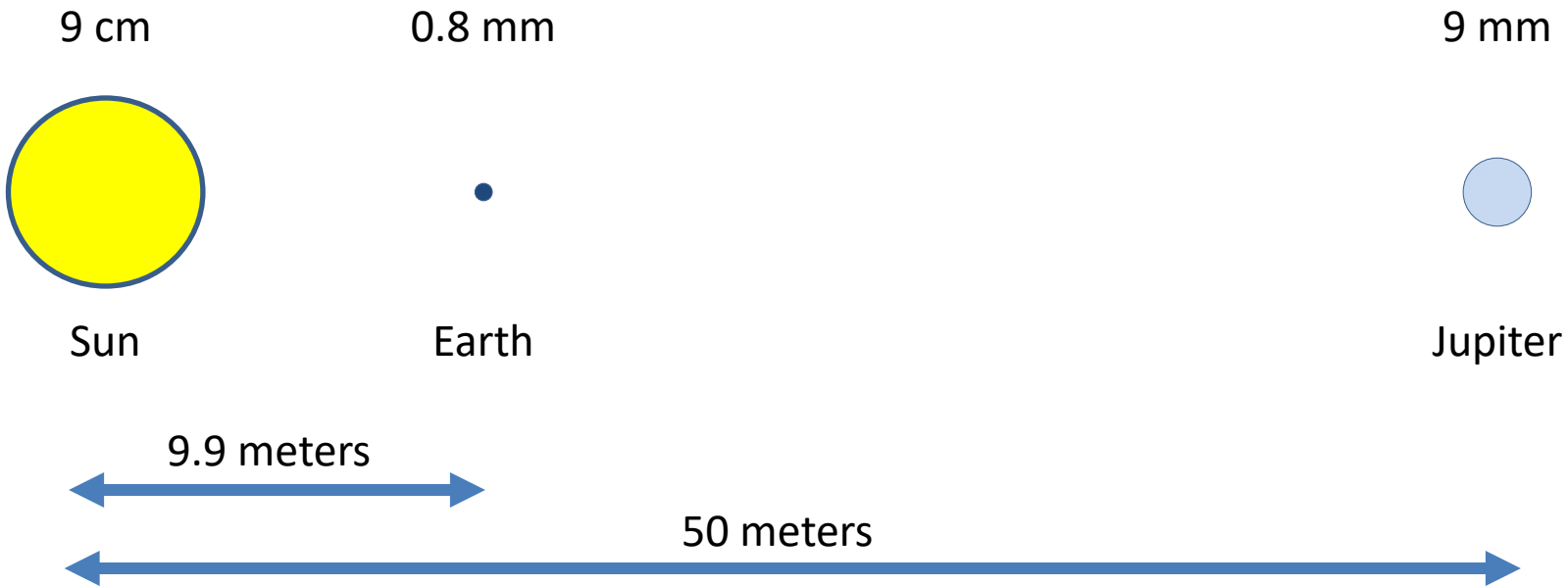


Hands-on Space Activity 1

1. Use the 9 cm “ball” as the Sun.
2. Use clay for Earth and Jupiter (roll them to scale as described).
3. Use meter stick and string to measure distances as shown (outside).
4. Attach photo of results to assignment. Stand at Jupiter facing the (fake) sun for the photo.

NOTE ... units of measure for this activity include meters, cm, and mm.

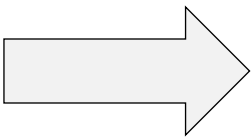
Sizes and Distances are not Shown to Scale



ACTUAL

# Miles	measurment of
480,000,000	distance Sun to Jupiter
95,000,000	distance Sun to Earth
864,000	diameter of Sun
87,000	diamter of Jupiter
7,900	diamter of Earth

CONVERSION



TO SCALE

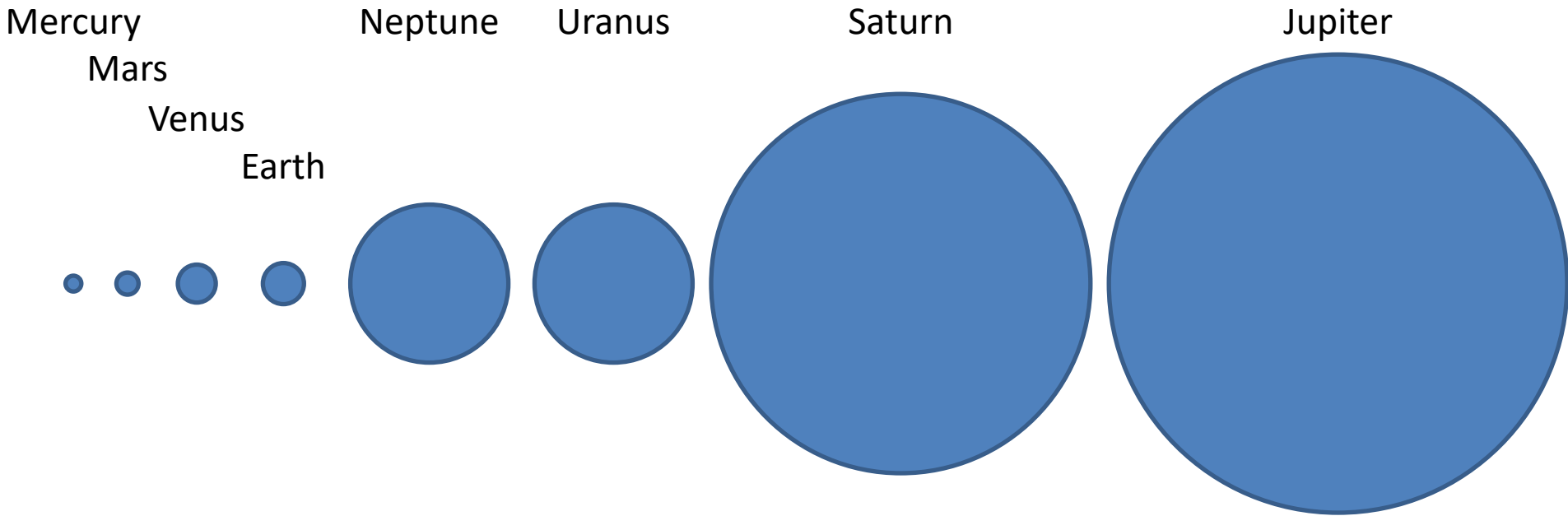
Number	Units	Conversion TO
50.00	meters	distance Sun to Jupiter
9.90	meters	distance Sun to Earth
9.00	cm	diameter of Sun
9.06	mm	diamter of Jupiter
0.82	mm	diamter of Earth

Hands-on Space Activity 2

1. NOTE: you do not need the Sun for this activity.
2. Use clay provided to roll spheres (to-scale) as described representing each planet.
3. Place spheres in sequence from the Sun (left to right) ... with Mercury being on the far left.
4. The “planets” do not need to be spread out to-scale ... rather just place them in order.
5. Take a photo that includes all eight planets. Attach photo to the assignment.

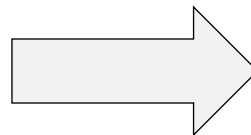
NOTE ... units of measure for this activity include cm and mm.

Sizes are shown to scale from smallest to largest.



Planet	Diameter	Units
Jupiter	142,800	km
Saturn	120,660	km
Uranus	51,118	km
Neptune	49,528	km
Earth	12,756	km
Venus	12,104	km
Mars	6,787	km
Mercury	4,879	km

CONVERSION



Planet	Diameter	Units
Jupiter	3	cm
Saturn	2	cm
Uranus	1	cm
Neptune	1	cm
Earth	3	mm
Venus	2	mm
Mars	1	mm
Mercury	1	mm

Sizes are to scale.
Distances are not to scale.

