

Name .....

**Directions: Write your answers in the blank. Show your work for each question**

1. The table shows the minimum surface temperature of four planets. Which list shows the planets in order of temperatures from least to greatest?

Planet	Temperature (°C)
Mars	-187
Mercury	-210
Pluto	-233
Saturn	-178

- A** Pluto, Mercury, Mars, Saturn
- B** Saturn, Mars, Mercury, Pluto
- C** Mars, Saturn, Mercury, Pluto
- D** Pluto, Mercury, Saturn, Mars

2. A box has a shipping limit of 40 pounds. If a factory wants to ship toys that weigh 0.75 of a pound each, how many can they fit in a box?

**Show your work**

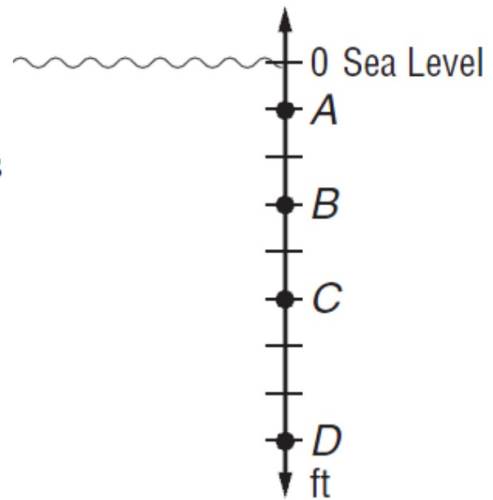
- A** 52
- B** 53
- C** 54
- D** 55

3. Six friends rented a canoe for a trip down the Catawba River. They plan to split the costs of the trip equally. If  $c$  represents the cost of the trip, which expression could be used to find the cost per person? **3.04**

- A**  $6 \times c$
- B**  $6 \div c$
- C**  $c \div 6$
- D**  $c + 6$

4. The figure shows depths beneath the surface of the ocean. If each interval on the scale represents 5 feet, at what depth is a diver if he is at point  $B$  on the scale?

- A**  $-30$  ft
- B**  $-25$  ft
- C**  $-20$  ft
- D**  $-15$  ft



5. Last year, a property manager bought five identical snow shovels and six identical bags of salt. The total cost of the snow shovels was \$172.50, before tax, and each bag of salt cost \$6.20, before tax.

This year, the property manager bought two identical snow shovels and four identical bags of salt. The total cost of the snow shovels was \$70.38, before tax, and the total cost of the bags of salt was \$26.04, before tax.

Determine the item with the greatest percent increase in the price from last year to this year. Be sure to include the percent increase of this item to the nearest percent.

*Show your work.*

*Answer* \_\_\_\_\_ and \_\_\_\_\_ %