

**“Freezing Point.... Melting Point....Boiling Point....”
Worksheet Packet ANSWERS:**

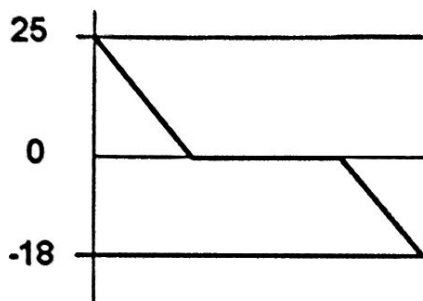
1. E 2. B 3. A 4. C 5. D 6. 0° 7. 90°

8. a) same substance (since both have same freezing/melting point), b) different volumes of each were frozen (took longer time for freezing to occur in graph A)

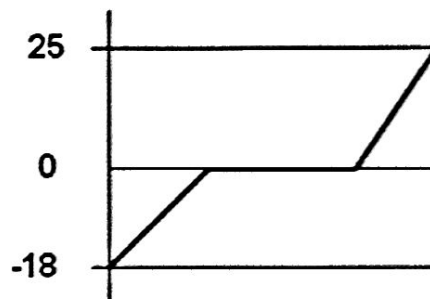
9. the temperature of a substance does not change during a phase change, so plateaus show the time and temperature at which a phase change occurs.

10. the mass stays the same – it’s a physical change (no matter gained or lost – just changed phase)

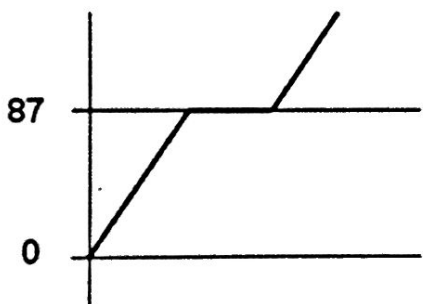
11.



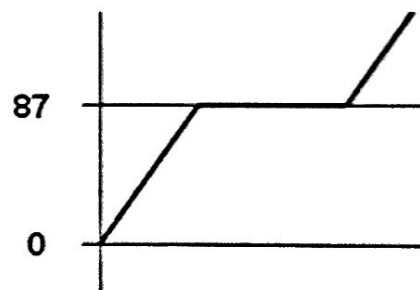
12.



13.



14.



notice that boiling plateau is twice as long as the plateau in # 13.

15. a) how volume of the cups affects the freezing point of water
b) the volume
c) time, temperature, how long/quickly she stirred each
d) the volume doesn’t change the freezing point, but it will take longer if there is more volume

16.

- a) 99.3°C
b) 99.9°C
c) 99.1°C
d) 99.5°C
e) the lower the elevation, the higher the boiling point