

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 a Each circle in the diagrams below represents a particle of a substance.  
Put a ring around the diagram showing the particles in a solid.



[1 mark]

- b Use the particle model to explain which state of matter can be compressed.

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[2 marks]

- 2 The graph shows the temperature of a block of ice changing as it is heated.



Explain why the temperature is not changing at X.

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[2 marks]

- 3 This is the formula for calculating density.

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

- a An object has a mass of 60g and a volume of 150cm<sup>3</sup>.  
Calculate the density of the object in g/cm<sup>3</sup>.

[2 marks]

# Exploring Science 8c Answers

**Nancy Conrad Martinez, Joseph G. R.  
Martinez**

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