HEAT FORMULA

Name

Part B: Solving the Heat Formula for other pieces

B.1 When 1,500 joules of energy is lost from a 1.277-kilogram object, the temperature decreases from 45°C to 40°C. What is the specific heat of this object? Of what material is the object made?

Looking For	Formula	
Already Know		
Answer as equation with unit:		

B.2 What is the specific heat of a material that gains 600 joules of energy when a 0.25-kilogram object increases in temperate by 3°C? What is this material?

object increases in temperate by 3°C? what is this material?				
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Answer as equation with unit:				

B.3 A liquid with a specific heat of 1,900 J/kg·°C has 4,750 joules of heat energy is added to it. If the temperature increases from 20°C to 30°C, what is the mass of the liquid?

B.4 What is the mass of a block of concrete that gains 52,800 joules of energy when its temperature is increased by 5°C?

Looking For	Formula	
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Answer as equation with unit:		

B.5 A scientist wants to raise the temperature of a 0.10-kilogram sample of glass from – 15°C to 45°C. How much heat energy is required to produce this change in temperature?

HEAT FORMULA

Name _____

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Answer as equation with unit:				
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B.6 A 0.25-kilogram sample of	aluminum is provided with 5,000 jour	les of heat energy. What		
will be the change in temperatur		23		
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Answer as equation with unit:				
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<u> </u>	erature for a 2-kilogram mass of wate	r that loses 8,500 joules of		
energy?	ъ 1	I		
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Already Know				
Answer as equation with unit:				
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