+	WS 7.1 Show	Specific Hea all work neatly	t & Calorimet	ry q =	= m c ΔT	Specific	
1.	How mucl 34.5°C to		ed to raise the	temp of 654	g of water from	substance water ethanol	© (J/g°C) 4.184 2.452
2.	How mucl 34.5°C to		ed to raise the	temp of 654	g of silver from	graphite diamond iron copper silver	0.720 0.502 0.444 0.385 0.237
3.	If 7350 J by how m		152 g of ethar	nol, its temp	would go up	gold ice Ans	0.129 2.092
4.			°C releases 40 nal temperature will be		t will be its final tem	•	
5.		added to a 36 kerosene's sp		e and the te	emp increases from		°C.
6.	25 copper (22.1°C). hint:	r pennies (each How much hea Calculate <i>q</i> for the cop	n weighing 3.12 at will it take to per & <i>q</i> for the ethanol	2 g) are plac raise the ter ^{separately.} Then	ced in 36.0 g of ethat mperature up to 65 add your 2 answers together	.8°C?	mp
7.		ss of 54.0°C wa e out to be 29.		dded to 468	g of 21.0°C water		al temp of
8.		ss of 54.0°C go ne out to be 29		ded to 468 g	g of 21.0°C water to	o make the final	temp of
9.	A 325 g b comes ou	rass rod at 100 t to be 37.4°C.	0.0°C is placed Determine bra	in a cup cor ass's specifi	ntaining 162 g of 24 c heat.		e final temp
10		of water at 20.0 ut to be?	0°C are mixed	with 200.0 g	g of copper at 40.0°		e final temp
An	s (IRO+1): 0.436	1.55 19.7 23.1 25	9.5 48.1 150 4860	5170 8560 15	51,000 <u>units</u> (IRO+1): J J	J °C °C °C °C	g g J/g°C J/g°C