

# Worksheet 1

Task: Calculate the energy efficiency of each car

$$\% \text{ energy efficiency} = \frac{\text{useful energy transferred}}{\text{total energy supplied}} \times 100$$

Design number	Total energy supplied (J)	Output kinetic energy (J)	Waste sound energy (J)	Waste light energy (J)	Waste thermal energy (J)	Energy efficiency (%)
1	150	125	20	1		
2	150	110	15		20	
3	150		13	2	24	
4	150	126		5	11	
5	150	73	58		19	
6	150		22	10	3	
7		116	5	13	16	
8	50	38	7	4		
9		30	8	5	7	
10	25		3	1	4	

