



A kilowatt-hour (kWh) is the energy that a one kilowatt appliance uses in one hour
Complete the table

Power in Watts (W)	Decimal Fraction of a (kWh)	Fraction of a (kWh)	Percentage of a (kWh)	Answers
1 (kWh)	1.0	1/1 (1 Whole kWh)	100%	
900W	0.90	9/10	90%	
800W	0.80	4/5		1.
750W	0.75		75%	2.
700W		7/10	70%	3.
600W	0.60		60%	4.
500W	0.50	1/2		5.
400W		2/5	40%	6.
300W	0.30		30%	7.
	0.25	1/4	25%	8.
200W	0.20		20%	9.
100W		1/10	10%	10.
10W	0.01	1/100		11.

Take the cost of 1 kWh of power to be 20p.

1. What does the electrical energy cost to run?

- (a) a 3 kW immersion heater for 1 hour
- (b) a 200 W light bulb for 1 hour
- (c) a 1 kW fire for 4 hours a day for 7 days

Answers

- (a)
- (b)
- (c)

2. How long can you use the following for 20p?

- (a) a 2 kW fire
- (b) a 3 kW cooker ring
- (c) a 100 W light bulb
- (d) a 250 W TV

Answers

- (a)
- (b)
- (c)
- (d)



Name

Class