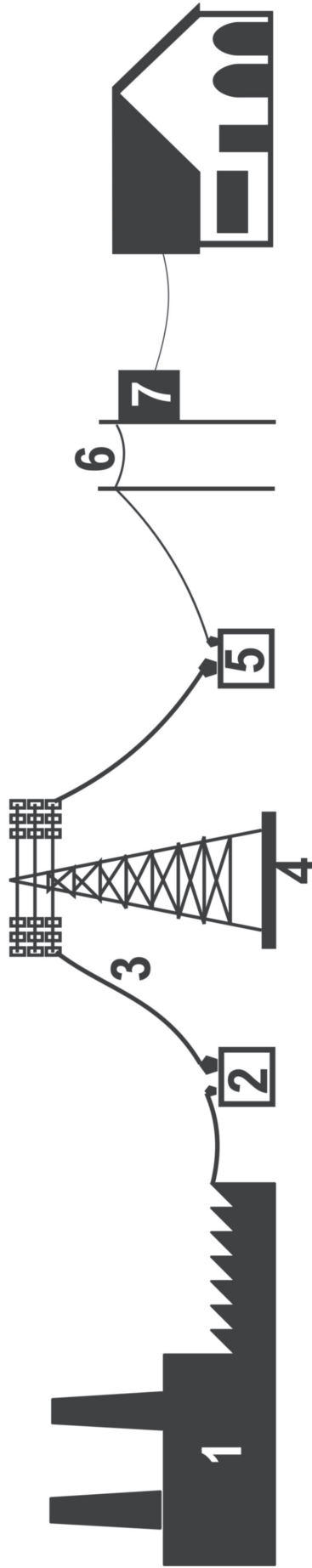


TRANSPORTING ELECTRICITY

Explain what each of the components numbered below does to get electricity from the generator to the consumer.



1. Power plant -
2. Step-up transformer -
3. Transmission line -
4. Power tower -
5. Step-down transformer -
6. Distribution line -
7. Neighborhood transformer -

MEASURING ELECTRICITY

Directions: Fill in the blanks in the tables below.

Voltage	=	Current	x	Resistance
1.5 V	=	A	x	3 W
V	=	3 A	x	4 W
120 V	=	4 A	x	W
240 V	=	A	x	1 2 W

Power	=	Voltage	x	Current
27 W	=	9 V	x	A
W	=	120 V	x	1.5 A
45 W	=	V	x	3 A
W	=	120 V	x	2 A

Appliance	Power	=	Voltage	x	Current
TV	180 W	=	120 V	x	
Computer	40 W	=	120 V	x	
Printer	120 W	=	120 V	x	
Hair Dryer	1,000 W	=	120 V	x	

POWER	x	TIME	=	ELECTRICAL ENERGY	x	PRICE	=	COST
5 k W	x	100 h	=		x	\$0.09	=	
1000 W	x	1 h	=		x	\$0.09	=	
25 kW	x	4 h	=		x	\$0.09	=	