

PHYSICS FORM TWO NECTA 1988.

Solutions from: Maktaba by TETEA

by Yohana Lozaro

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	B	D	A	B	C	A	B	C	A	C	D	C	D	D

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
C	A	D	A	D	A	B	D	B	A	D	C	A	C	C

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
B	A	E	D	C	D	C	E	A	F	B	C	D	A	E

47. (a) Data given, Force, $F = 100 \text{ N}$

Time, $T = 25 \text{ seconds}$, distance = 0 m , since the wall was not moved

Required, work done

Since work done = force \times distance

$$= 100 \text{ N} \times 0 \text{ m} = 0 \text{ J}$$

Hence there is no work done.

(b) Data given; -

$$\text{Power} = 1 \text{ kW} = 1000 \text{ W}$$

$$\text{Time} = 4 \text{ seconds}$$

From, power = work done/time

Work done = power \times time

$$= 1000 \times 4 = 4000 \text{ J}$$

$$\text{Work done} = 4000 \text{ J.}$$

48. (a) Atmospheric pressure is caused by the presence of gases in the atmosphere.

(b) Given, $h = 76 \text{ cm} = 0.76 \text{ m}$

$$\text{Density} = 13600 \text{ kg/m}^3$$

$$g = 10 \text{ N/m}^2$$

from, pressure = density \times g \times height

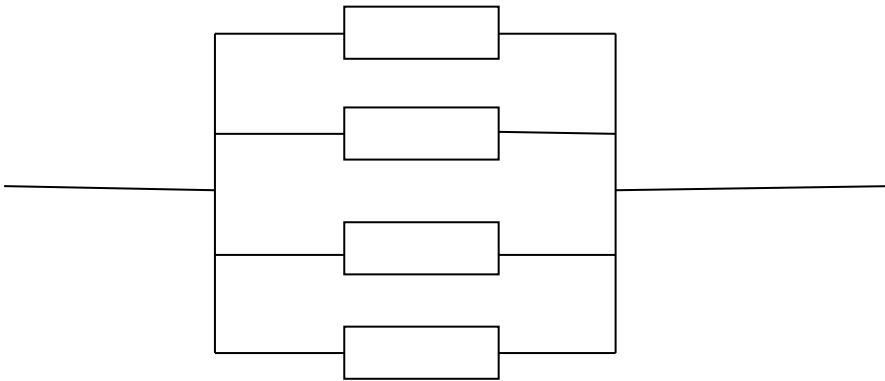
$$= 13600 \times 10 \times 0.76$$

$$= 103360 \text{ N/m}^2$$

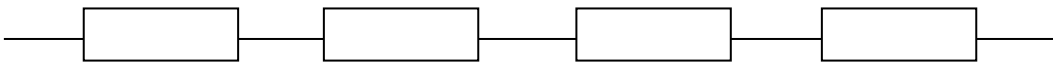
49.(a) Partial solar eclipse occurs when the sun is not completely covered.

(b) Total solar eclipse occurs when the sun is completely covered.

50. resistors in parallel.



(b) Resistors in series.



(c) Battery in series with an ammeter

