Name: ....

School: ....

Class: **Grade 6**

Subject: **Science**

برنامج التعلم الذاتي
Self-Learning Program

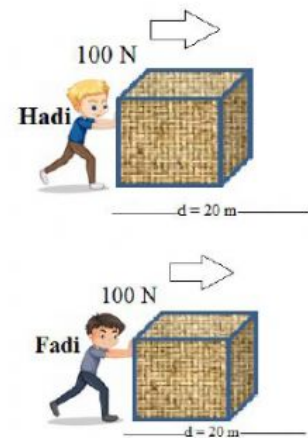## Intractive Worksheet: Week 27/ Self-Learning Program

Exercise 1:

A motorcycle used 1500 Joule in 30 seconds. Calculate the power consumed by the motorcycle.

1- The work done by the motorcycle is: 150 Joule   -   1500 Joule   -   50 Joule

2- The power consumed is calculated using the relation: $P = \dfrac{W}{T}$ - $W = F \times d$ - $P = W \times t$

3- The power consumed by the motorcycle is: P = 1500 W   -   P = 45000 W   -   P = 50 W

Exercise 2

Fadi and Hadi are moving boxes to a distance 20m as shown in the figure. Hadi took 40 seconds while Fadi took 20 seconds in the job.

1- Fadi and Hadi exerted the same force

2- Fadi exerted greater work than Hadi

3- Fadi spent less time than Hadi

4- Hadi and Fadi consumed the same power

5- The power used by Hadi is 50 Watt

100 N

Hadi

d = 20 m

100 N

Fadi

d = 20 m

Exercise 3

Relate the different terms to the suitable title:

James Watt   –   20 Joule   – M x g –   Issac Newton   –   200 W –

distance moved by force   –   10 N/Kg   –   Work per time   –

James Joule   –   N x m   –   force of gravity   –   Joule per second

Weight	Work	Power