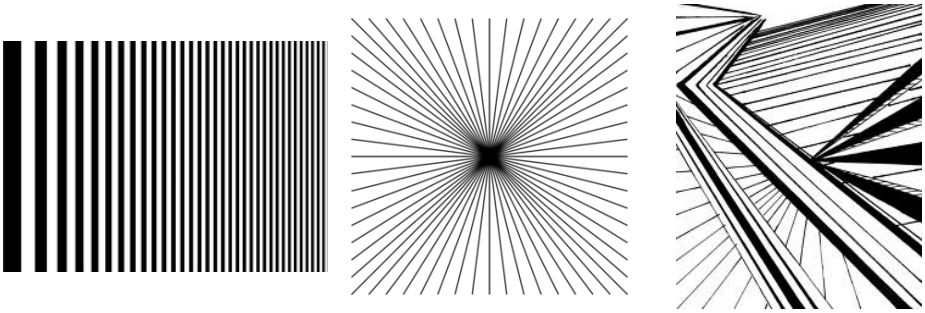
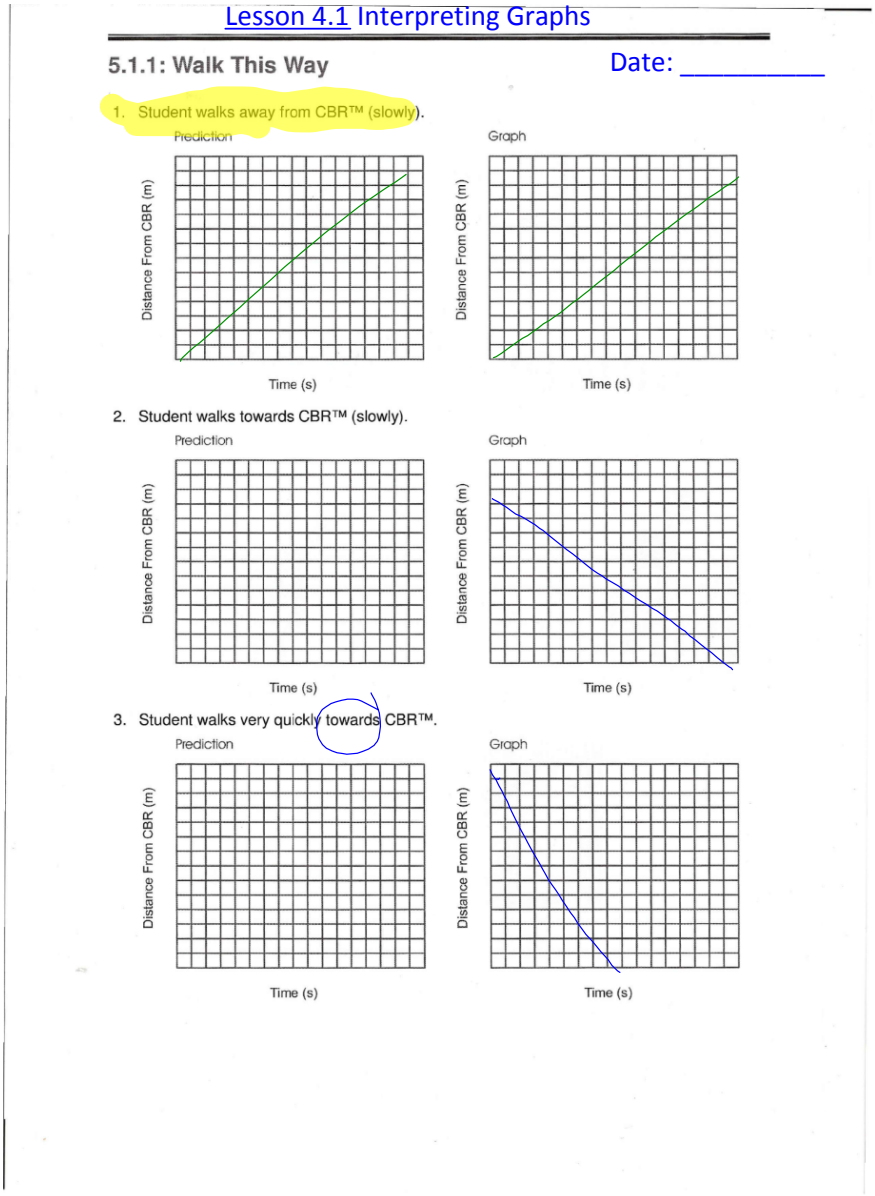
Unit 4: Linear Relations

Lesson 4.1 Interpreting Graphs

You need a ruler for this unit!



Investigate the relationship between distance and time using the CBR... fun stuff!



Lesson 4.1 Interpreting Graphs

5.1.1: Walk This Way Date: _____

1. Student walks away from CBR™ (slowly).

Prediction

Graph

2. Student walks towards CBR™ (slowly).

Prediction

Graph

3. Student walks very quickly towards CBR™.

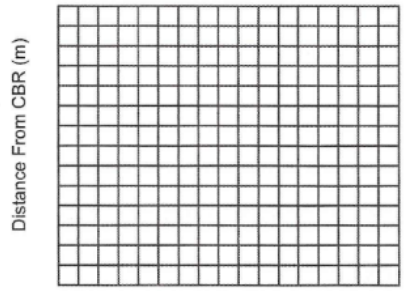
Prediction

Graph

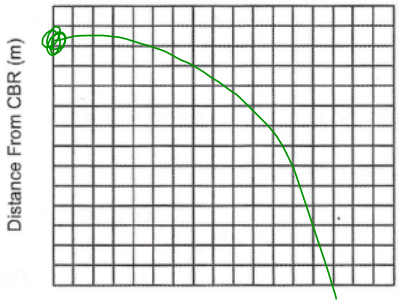
5.1.1: Walk This Way (continued)

4. Student increases speed while walking towards the CBR™.

Prediction

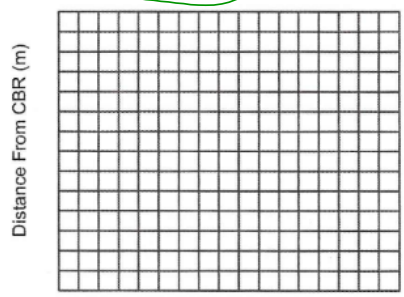


Graph

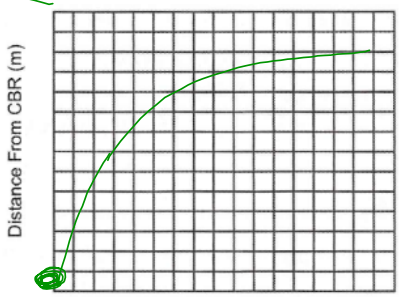


5. Student decreases speed while walking away from the CBR™.

Prediction

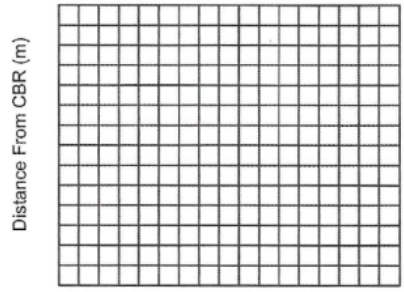


Graph

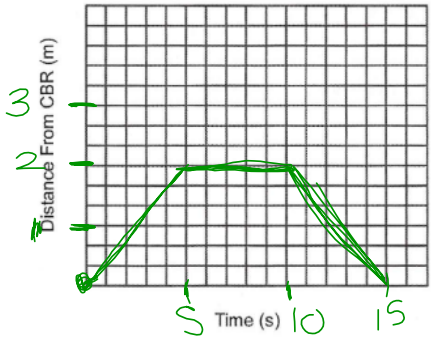


6. Student walks away from ranger, at 2 metres stops for 5 seconds, then returns at the same pace.

Prediction



Graph

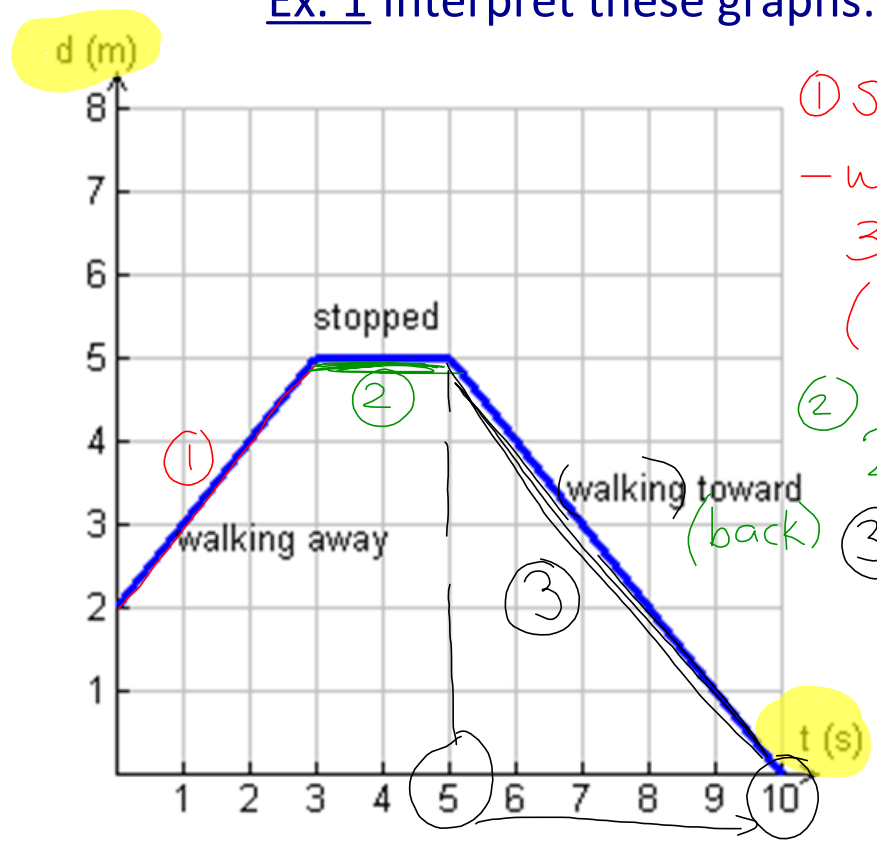


Now writing on the mini-handout...

Lesson 4.1

Date: _____

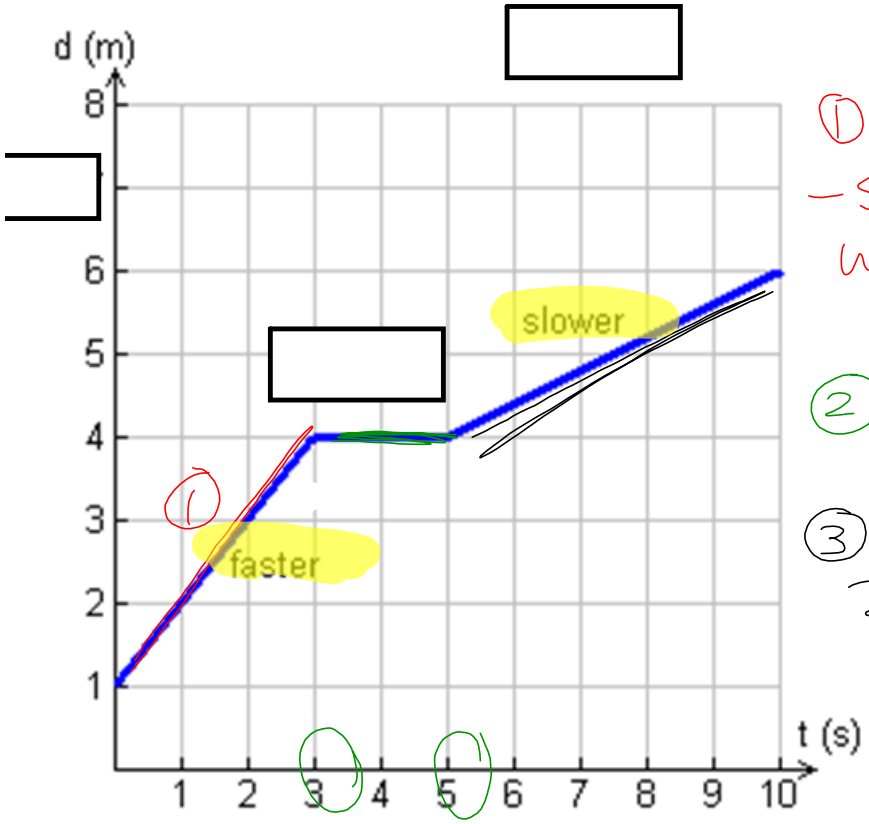
Ex. 1 Interpret these graphs:



① Start at 2m
- walk away
3m ~~for~~ in 3sec
(1 m/sec)

② Stopped for
2 seconds

③ walking
towards
5m in 5 sec
(1m/sec)



① walking away
- starts at 1m
walks 3m in 3sec
(1 m/sec)

② Stops for
2 seconds

③ walk away
2m in 5 sec

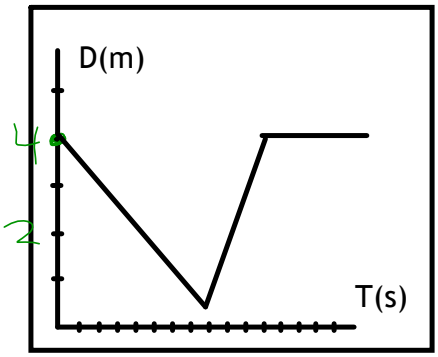
$\frac{2\text{ m}}{5\text{ sec}}$

$= 0.4\text{ m/s}$

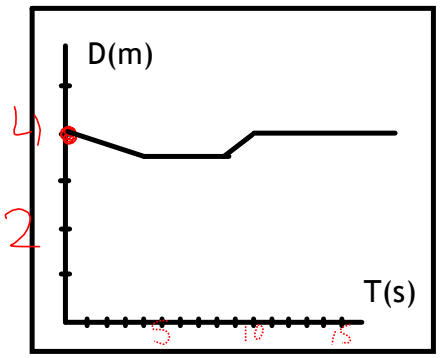
Writing on the back of the mini-handout...

Ex. 2 Draw the graph that matches the description given.

1. Begin 4 m from the CBR. Walk toward the CBR.
When you are 0.5 m from the CBR run backward to the starting position. Stop.



2. Begin 4 m from the CBR. Walk toward the CBR for 4 s. Stop for 5 s.
Run backward to your starting position. Stop.



3. Begin at the CBR . Walk *slowly* backward until you are 5 m from the CBR .
Then walk *slowly* toward the CBR . Stop.