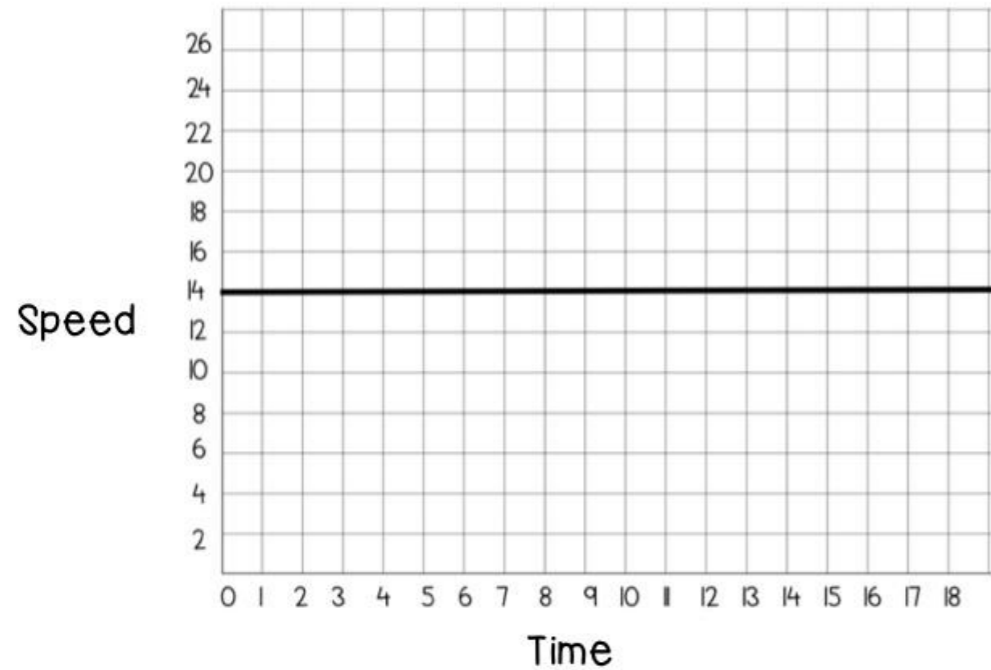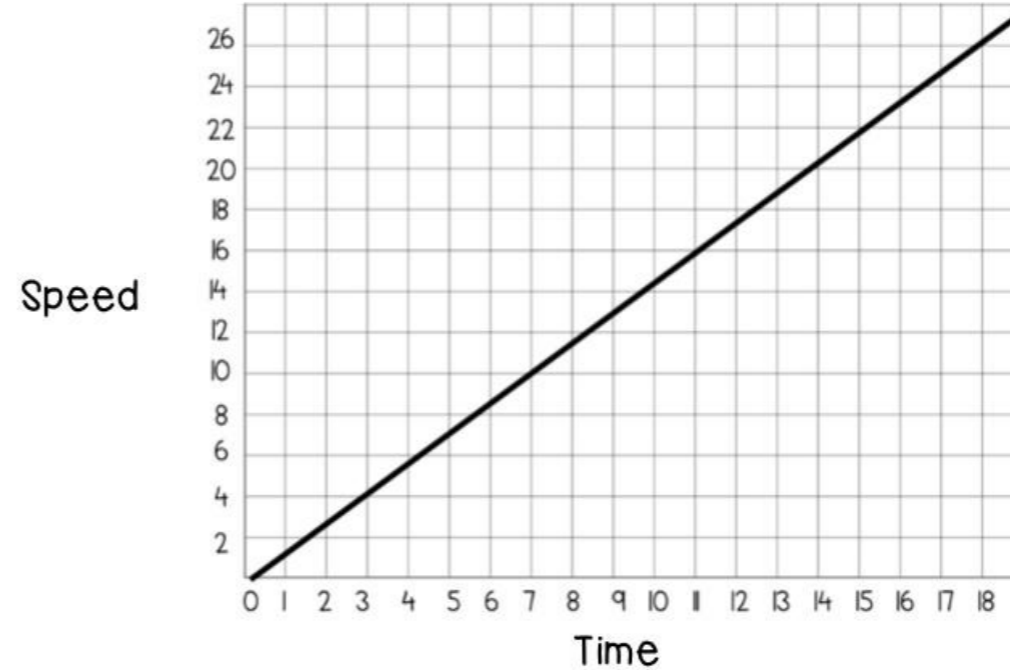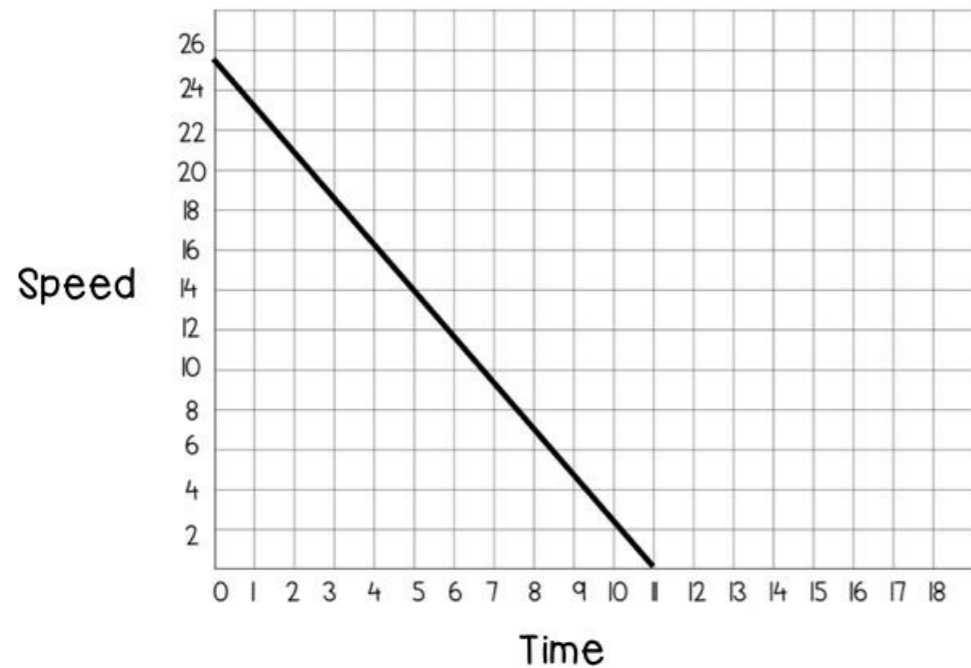# Speed-Time Graphs

Straight line means constant speed.
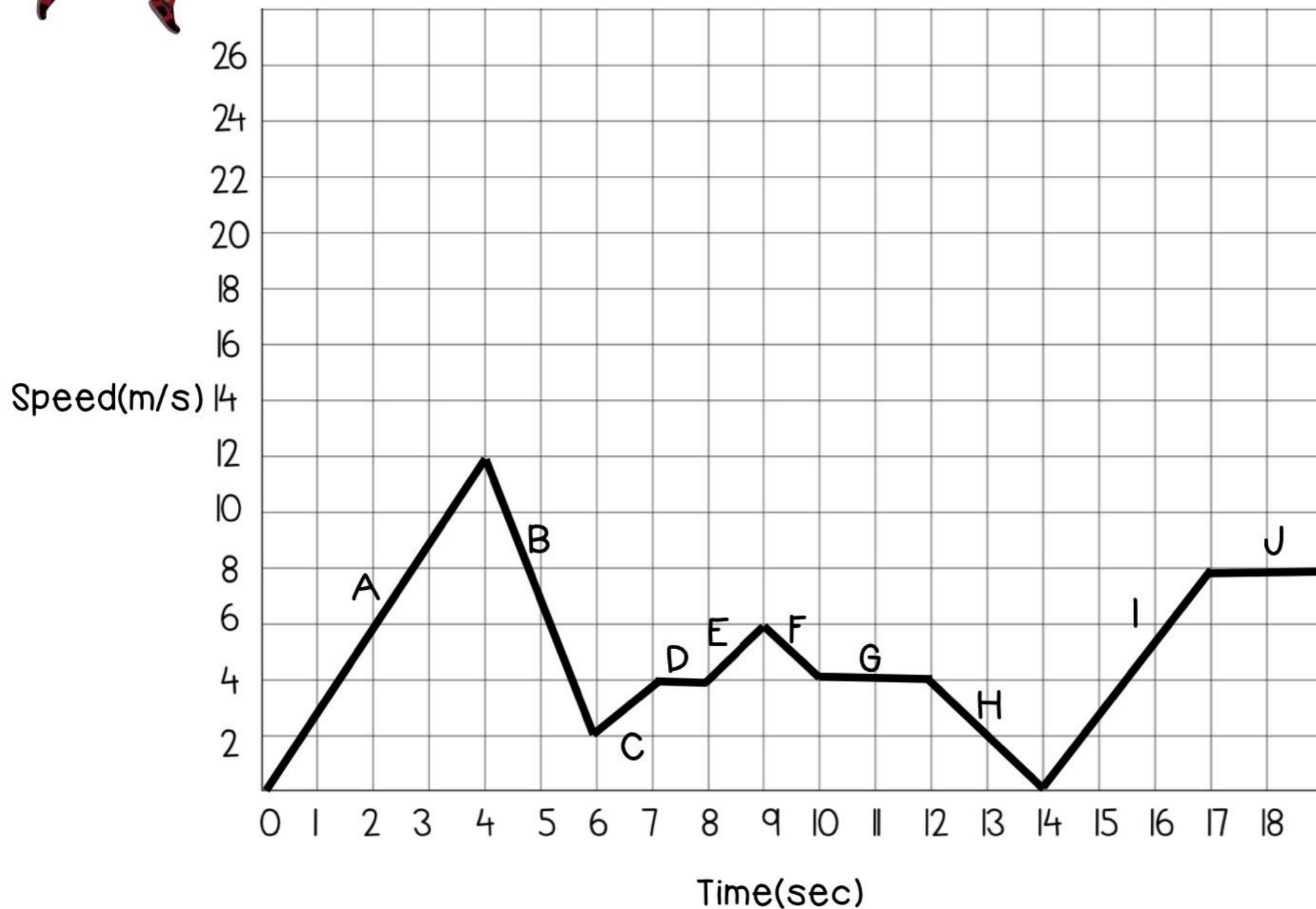

Diagonal line means constant acceleration.

Diagonal in this direction means constant deceleration.

Speed-Time Graph #4

Speed(m/s)

Time(sec)

©Karen Sinai 2018
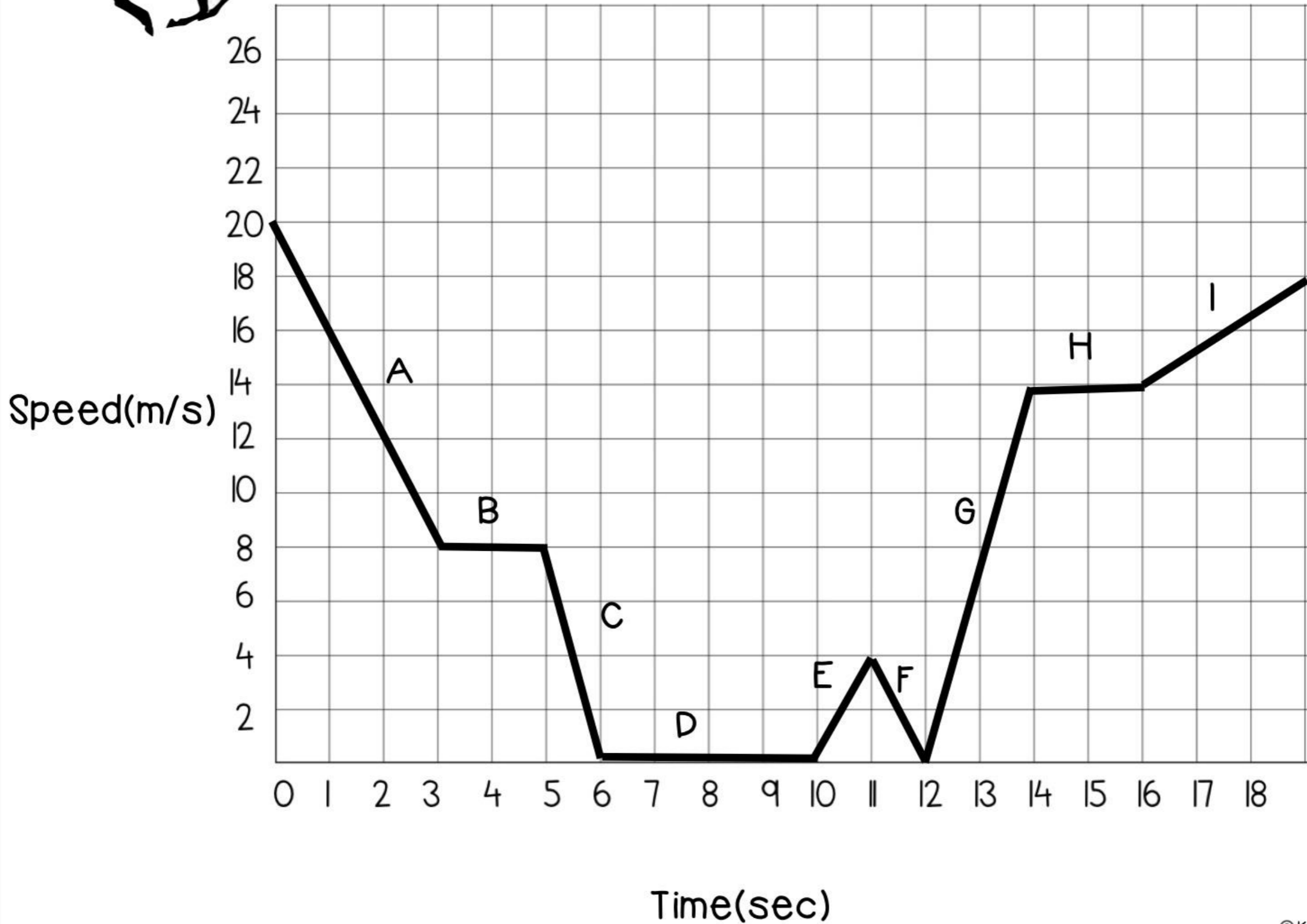
Speed-Time Graph #4

A.

B.

C.

D.

E.

F.

G.

H.

I.

J.

Speed-Time Graph #5

Speed(m/s)

Time(sec)

©Karen Sinai 2018
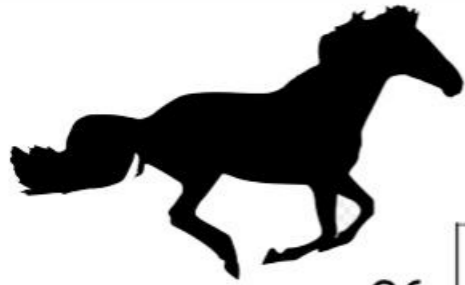
Speed-Time Graph #5

A.

B.

C.

D.

E.

F.

G.

H.

I.

Speed-Time Graph #6

Speed(m/s)

26
24
22
20
18
16
14
12
10
8
6
4
2

A   B   C   D   E   F   G   H   I   J   K   L   M

Time(sec)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

©Karen Sinai 2018
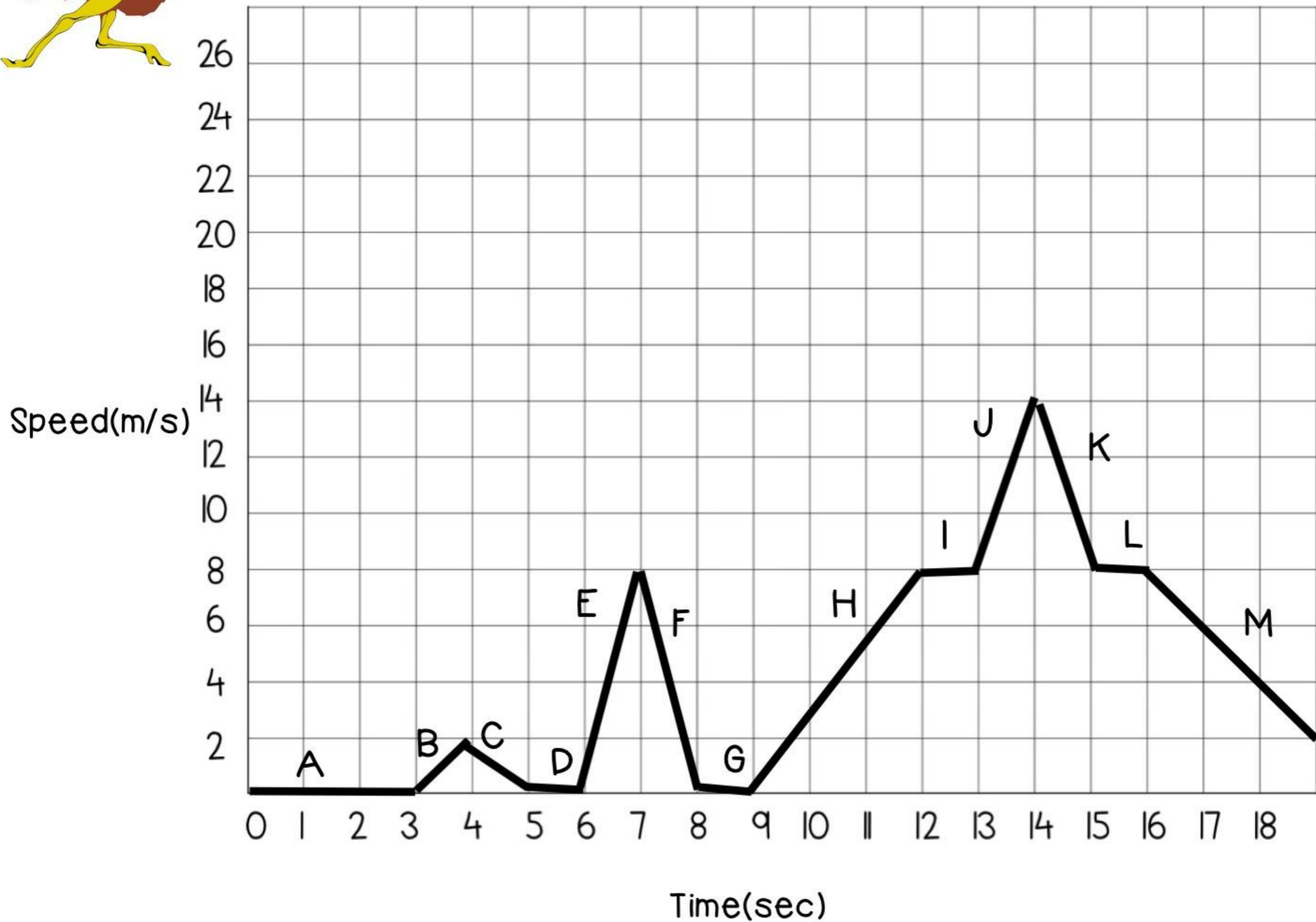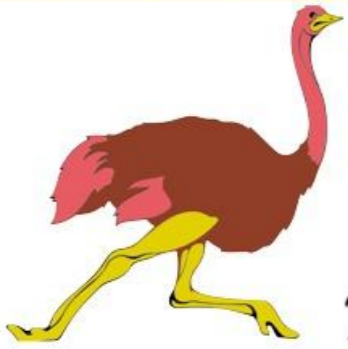
Speed-Time Graph #6

A.

B.

C.

D.

E.

F.

G.

H.

I.

J.

K.

L.

M.

Speed(m/s)

26
24
22
20
18
16
14
12
10
8
6
4
2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Time(sec)

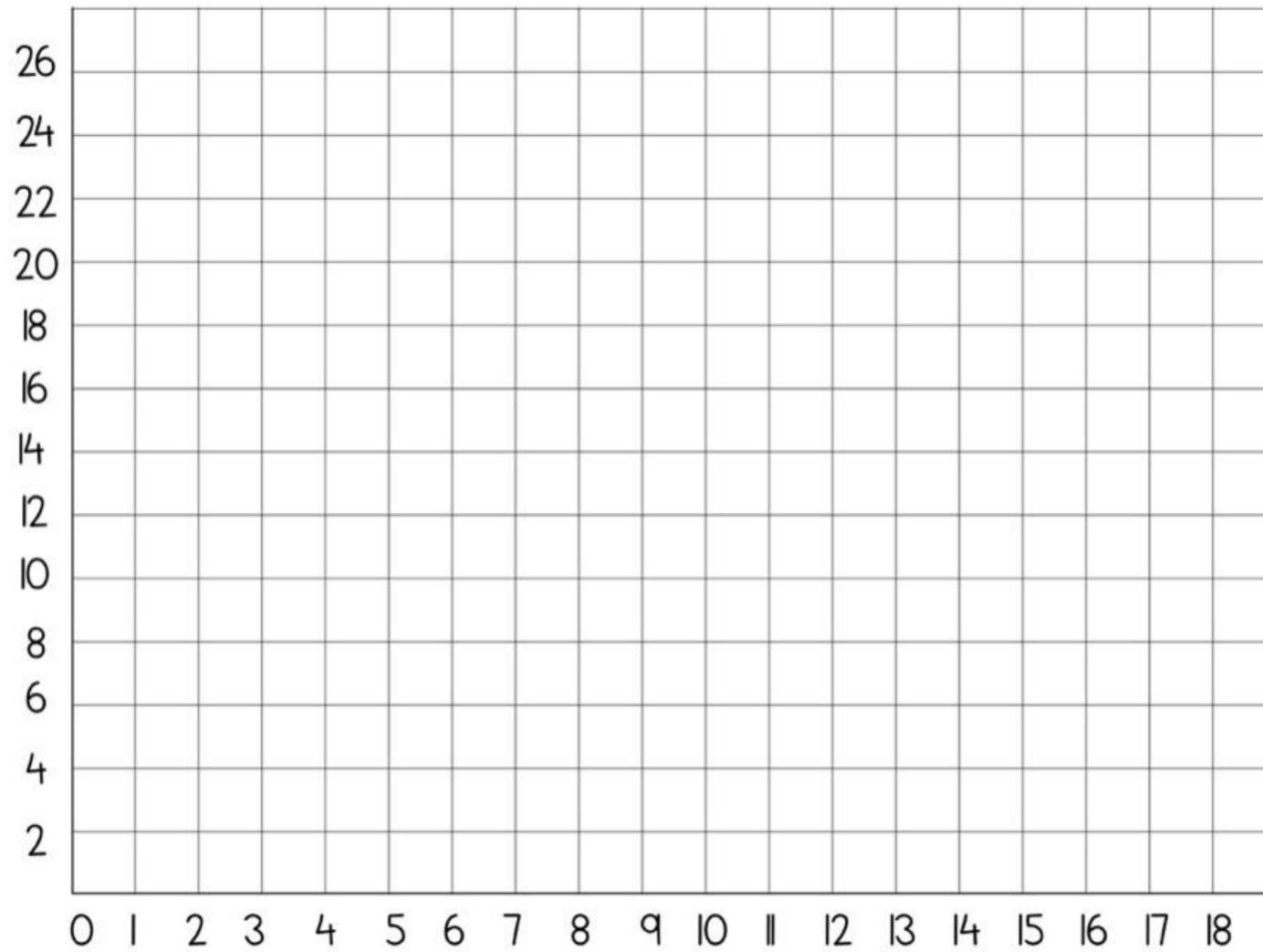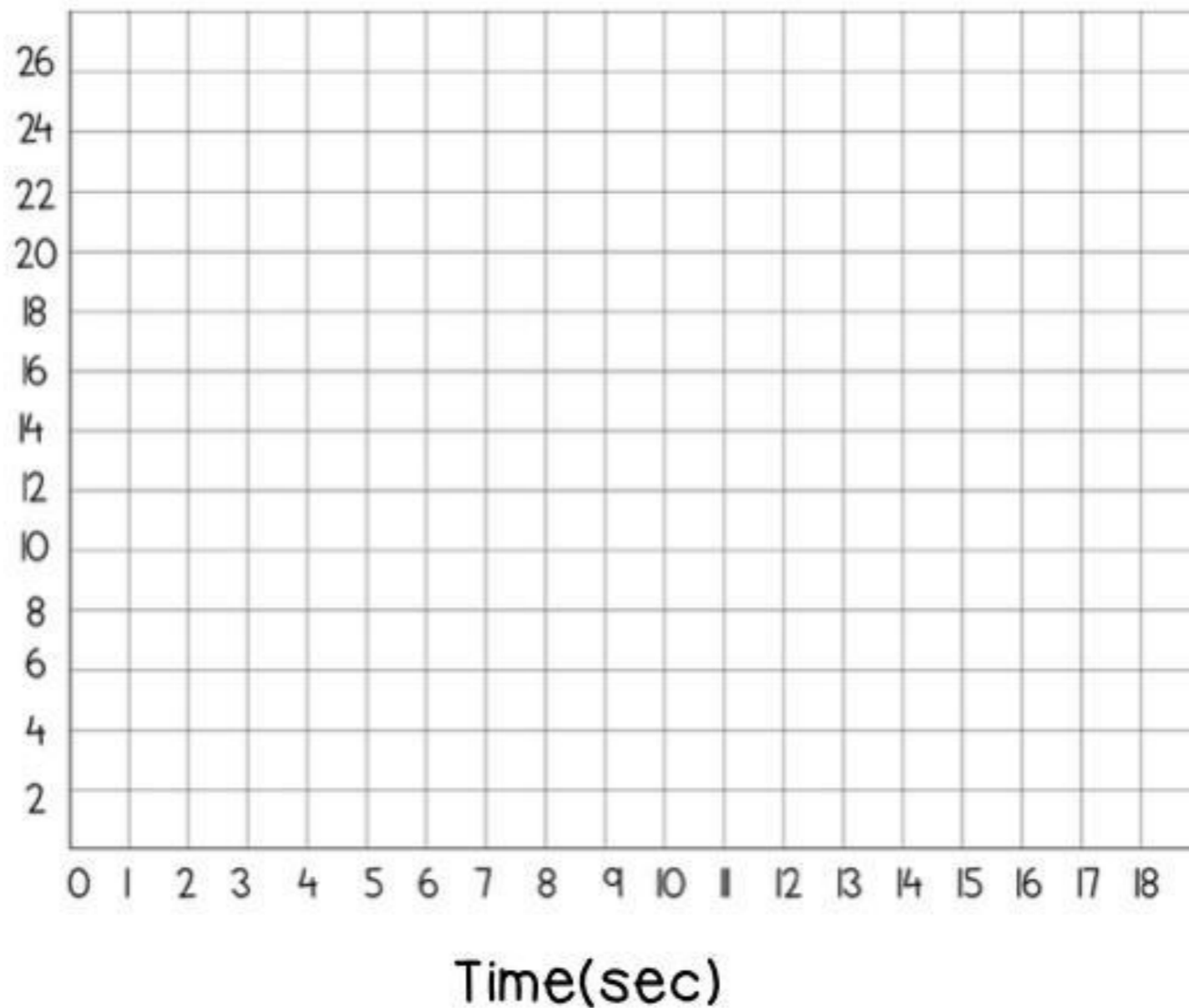Danny left the driveway and accelerated up to 10m/s for 4 sec. Then he traveled at a constant speed for 6 sec. He hit traffic and had to decelerate to 4 m/s in 2 sec. He broke free of the traffic and accelerated up to 10 m/s in 2 sec. He then traveled at a constant speed for 5 sec and reached work.

Distance(m)

Time(sec)

Sammy accelerated very fast when he saw the ice cream truck down the street. He ran from his house(starting point) 20m away in two seconds. He hung out at the truck for five seconds and then he started to walk back home for 14 m in three seconds. Suddenly, his friend Yoni called from across the street and Sammy turned around and accelerated fast to his friend for 4 m in two seconds. He hung out for three seconds, resting a bit, and then jumped on the skateboard. He went at a constant speed for 10m in two seconds. He then stopped and rested for three seconds.

Distance(m)

Time(sec)
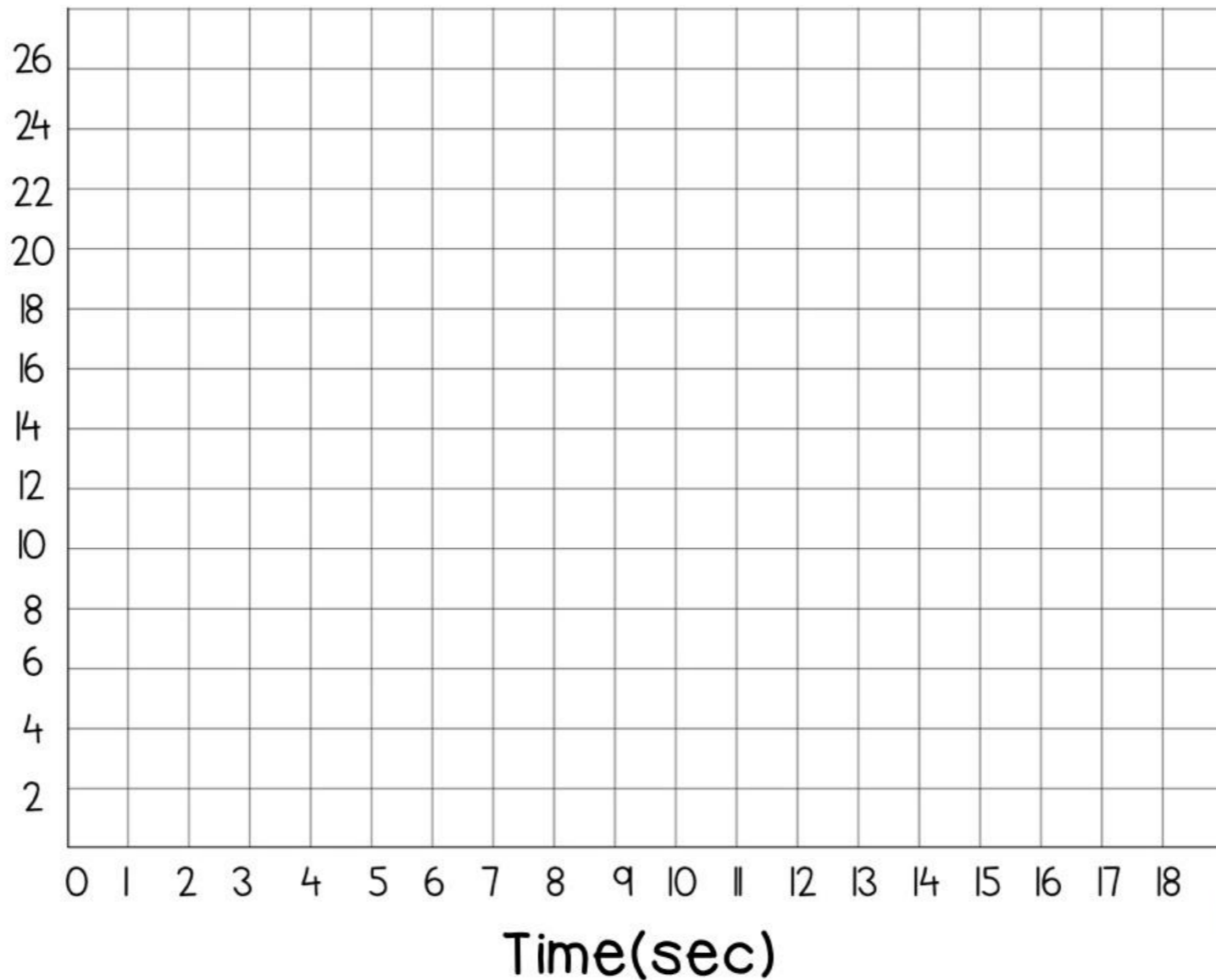
A rabbit walked at a constant speed for 4 m in 2 sec. He stopped to listen for 3 sec because he heard rustling in the bushes. Suddenly he saw a cat poke his head out of the leaves! The rabbit accelerated fast across the yard for 10 m in 2 sec. He stopped and looked back for 1 sec. The cat didn't see him. Whew! He slowly started walking back to where he came from for 2m in 1 sec. The cat appeared out of nowhere and started chasing the rabbit. The rabbit accelerated fast for 6m in 2 sec and escaped. He stopped and looked around for 1 sec. The cat gave up and left so the rabbit slowly walked back for 4m at a constant speed for 3 sec. His day was exhausting so he laid down to rest and our story ends.