

Unit 2 Test: Linear Equations and Functions



The test answer keys provide answers only.

Worked solutions for these problems are located in the Digital Pack.

1)

A) $H(x) = \frac{5}{20}x = \frac{1}{4}x$

$E(x) = \frac{5}{40}x = \frac{1}{8}x$

B) Hanna's slope is $\frac{1}{4}$. This means she can run 1 kilometer in 4 minutes.

Ester's slope is $\frac{1}{8}$. This means she can run 1 kilometer in 8 minutes.

C) The graph is continuous because the domain would be written as an interval. Even though the times are only recorded every 5 minutes, the runners were running continuously.

D) After 20 minutes, Hanna had completed 5 km, and Ester had completed 2.5 km. Hannah is the winner of the race.

2) D

3) C

4) B

5) A

6) D

7) B

8) B

9) C

10) C

11) D

12) D

13) B

14) D

15) C

16) D

17) B

18) D

19) A

20) B

21) C

22) D

23) A

24) B

25) C