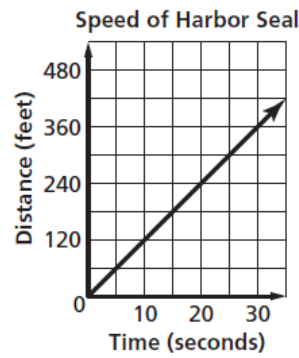


- 40 The graph shows the speed of a harbor seal as it swims along the coast. If the trend shown on the graph continues, how far will the seal have traveled in 40 seconds?

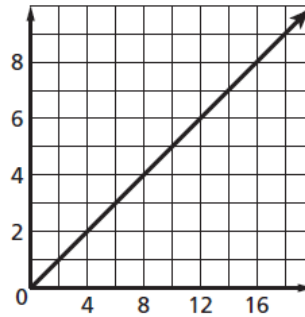
- A 360 ft
- B 400 ft
- C 420 ft
- D 480 ft
- E 540 ft



40 _____

- 41 The linear function shown on the graph could represent:

- A the height of a hat tossed in the air when the home team wins.
- B the teaspoons of creamer used per cup of Joe's coffee.
- C the height of a tidal wave as it approaches the shore.
- D the time it takes a car to stop when the traffic light turns red.
- E the decay of a radioactive substance over time.



41 _____

- 42 Erika used the spreadsheet below to solve $4x^2 - 12x + 5 = 0$. Which are the solutions of the equation?

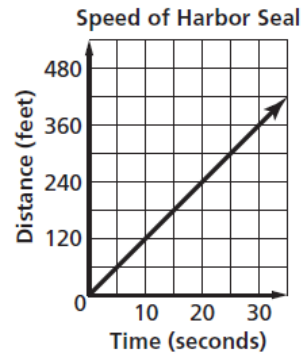
x	$4x^2$	$-12x$	5	$f(x)$
0	0	0	5	5
0.5	1	-6	5	0
1	4	-12	5	-3
1.5	9	-18	5	-4
2	16	-24	5	-3
2.5	25	-30	5	0
3	36	-36	5	5

- A -30, 5
- B -6, 5
- C 0.5, 5
- D 0.5, 2.5
- E 2.5, 0

42 _____

- 40 The graph shows the speed of a harbor seal as it swims along the coast. If the trend shown on the graph continues, how far will the seal have traveled in 40 seconds? **I.A.6.**

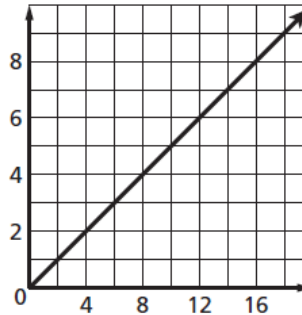
- A 360 ft
- B 400 ft
- C 420 ft
- D 480 ft
- E 540 ft



40 **D**

- 41 The linear function shown on the graph could represent: **II.A.1.**

- A the height of a hat tossed in the air when the home team wins.
- B the teaspoons of creamer used per cup of Joe's coffee.
- C the height of a tidal wave as it approaches the shore.
- D the time it takes a car to stop when the traffic light turns red.
- E the decay of a radioactive substance over time.



41 **B**

- 42 Erika used the spreadsheet below to solve $4x^2 - 12x + 5 = 0$. Which are the solutions of the equation? **III.A.5.**

x	$4x^2$	$-12x$	5	$f(x)$
0	0	0	5	5
0.5	1	-6	5	0
1	4	-12	5	-3
1.5	9	-18	5	-4
2	16	-24	5	-3
2.5	25	-30	5	0
3	36	-36	5	5

- A -30, 5
- B -6, 5
- C 0.5, 5
- D 0.5, 2.5
- E 2.5, 0

42 **D**