Snail Pace

This problem gives you the chance to:
- work with distances, time and speeds in inches and minutes

These snails move very slowly. Here are their speeds.

Snail A = 5 inches in 10 minutes

Snail B = 1 ½ inches in 5 minutes

Snail C = 1 foot in 50 minutes

Snail D = 15 inches in 25 minutes

1) Fill in the ratio tables.

Snail A:

Distance (in)	4	8	10				100
Time (min)	8			30	45	60	

Snail B:

Distance (in)	1 ½	3				30	33
Time (min)	5		60	80	180		

Snail C:

Distance (ft)	1	2		4			60
Time (min)	50		450		120	180	

Snail D:

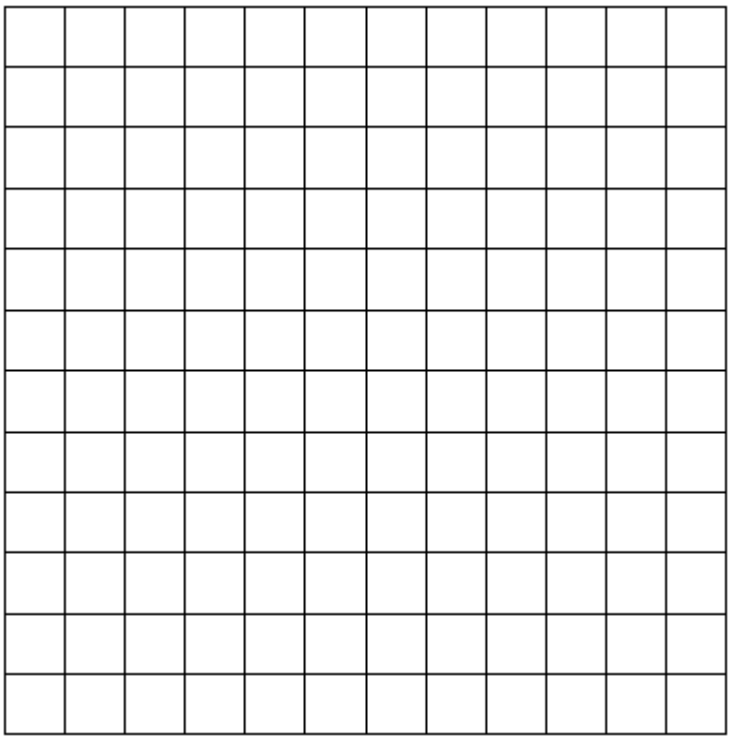
Distance (in)	15			30			100
Time (min)	25	30	40		60	120	

5) Graph each snail's pace below.

Use a DIFFERENT COLOR for each snail! Remember to connect each one to (0,0).

Distance

(inches)



Time (minutes)

How far can snail D travel in 1 hour?_____

How far can Snail A travel in 2 hours?:_____

How far can snail C travel in ½ an hour?_____

6) Using the graph above, which snail is the fastest? Which snail is the slowest? Please explain your reasoning using complete sentences.

_____

_____

_____

_____

7) Snail-E entered the race! He was a surprise winner! Write a rate and create a table or diagram to show a possible speed that he might have traveled in 15 minutes, 30 minutes, 45 minutes, and 60 minutes.

8) Gary the Snail traveled 12 inches in 45 minutes. Create a table or diagram to show how far he traveled, and graph his line on the coordinate plane above.

ANSWER KEY

Snail Pace

This problem gives you the chance to:
- work with distances, time and speeds in inches and minutes

These snails move very slowly. Here are their speeds.

Snail A = 5 inches in 10 minutes

Snail B = 1 ½ inches in 5 minutes

Snail C = 1 foot in 50 minutes

Snail D = 15 inches in 25 minutes

1) Fill in the ratio tables.

Snail A:

Distance (in)	4	8	10	15	22.5	30	100
Time (min)	8	16	20	30	45	60	200

Snail B:

Distance (in)	1 ½	3	18	24	54	30	33
Time (min)	5	10	60	80	180	100	110

Snail C:

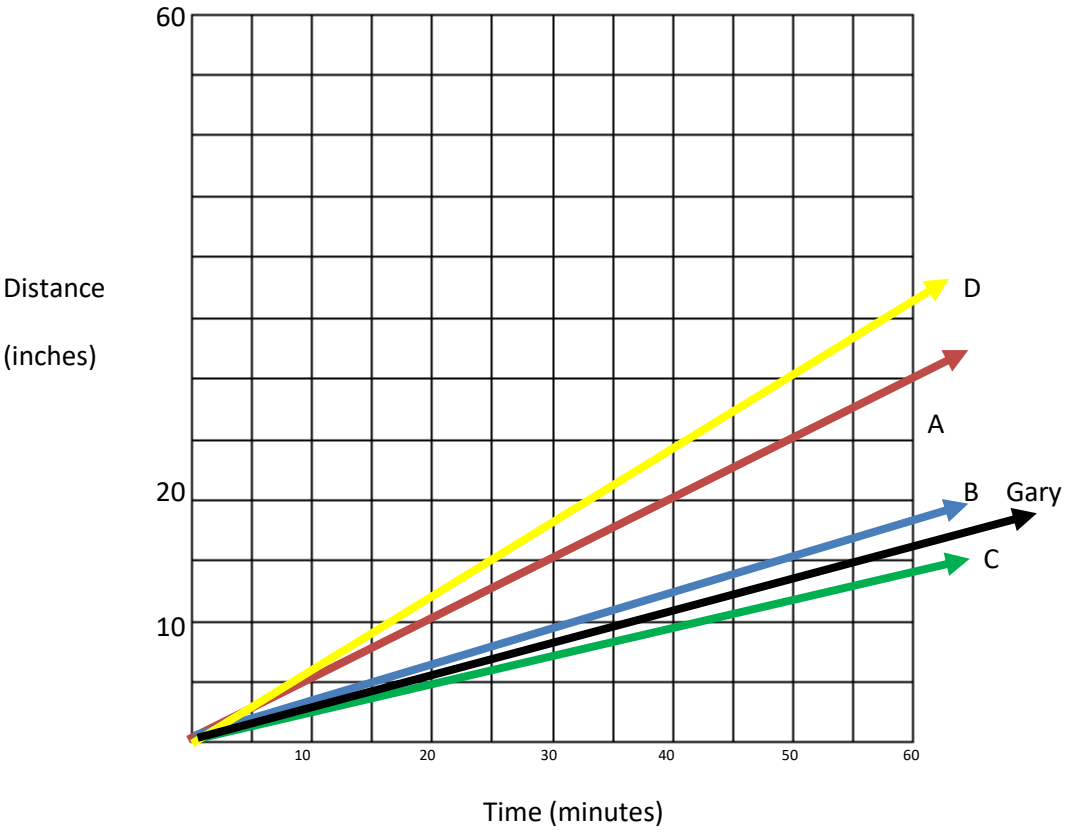
Distance (ft)	1 12 in	2 24 in	9 108 in	4 48 in	2.4 28.8 in	3.6 43.2 in	60 720 in
Time (min)	50	100	450	200	120	180	3000

Snail D:

Distance (in)	15	18	24	30	36	72	100
Time (min)	25	30	40	50	60	120	166.7

5) Graph each snail's pace below.

Use a DIFFERENT COLOR for each snail! Remember to connect each one to (0,0).



How far can snail D travel in 1 hour? 36 INCHES

How far can Snail A travel in 2 hours? 60 INCHES

How far can snail C travel in ½ an hour? 7.2 INCHES

6) Using the graph above, which snail is the fastest? Which snail is the slowest? Please explain your reasoning using complete sentences.

D is the fastest, and C is the slowest…. Explanations may vary

7) Snail-E entered the race! He was a surprise winner! Write a rate and create a table or diagram to show a possible speed that he might have traveled in 15 minutes, 30 minutes, 45 minutes, and 60 minutes.

Minutes	15	30	45	60
Distance				

Answers vary!

8) Gary the Snail traveled 12 inches in 45 minutes. Create a table or diagram to show how far he traveled, and graph his line on the coordinate plane above.

Minutes	45	15	30	60
Distance (inches)	12	4	8	16