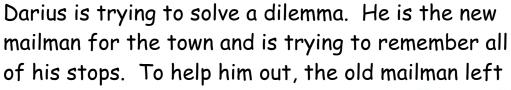


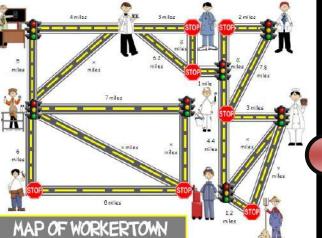
DARIUS' DILEMMA

MAP NOT
DRAWN TO
SCALE



him this map, so he can track his mileage:

The only problem is that some of the distances have worn off and he needs to figure out certain values.



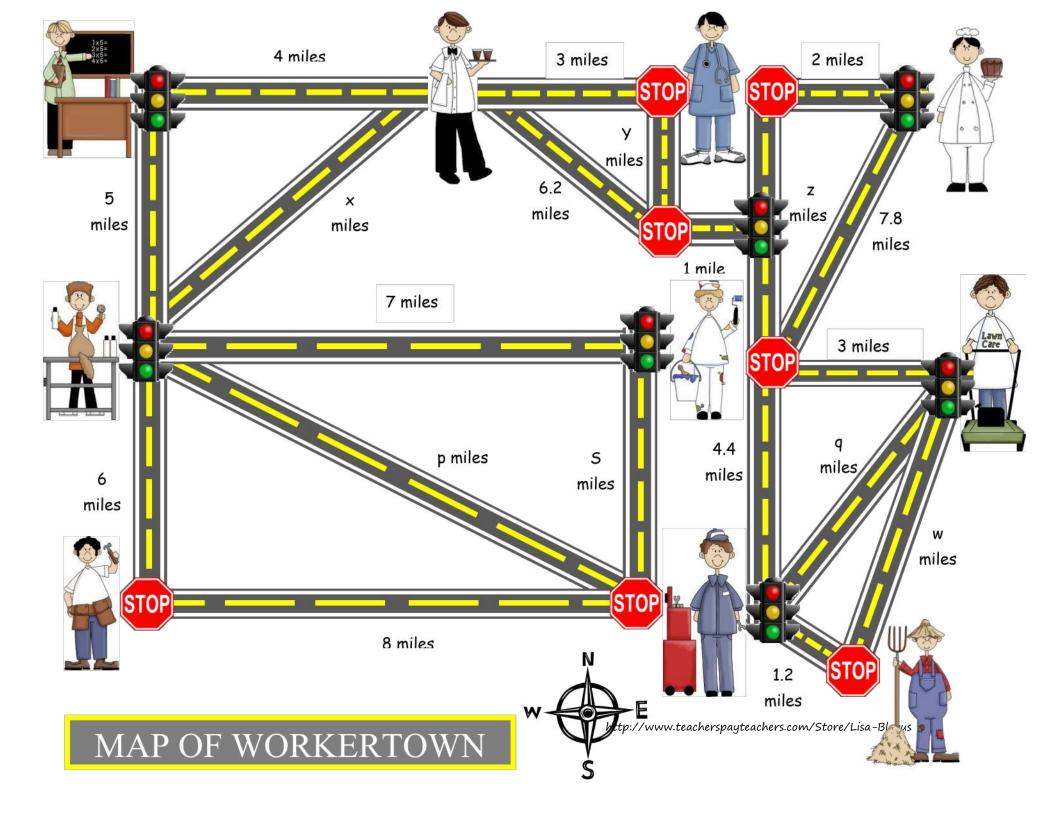
Help Darius figure out the values by solving the Pythagorean Theorem. Some problems may need to be solved before others can be solved! Just to review:

$$a^2 + b^2 = c^2$$

ROUND TO
NEAREST
HUNDREDTH

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1. Darius needs to keep track of his mileage. One of the distances he needs to find is the length between the restaurant and the veterinarian's office. To find this you need to have two legs. Leg a is from the ______ to the _____ and Leg b is from the _____ to

Solve here:

Solve here:

the _____. Plug the values in and solve for letter, ____.

- 2. Another distance is the length between the doctors' office and the stop sign to the south, which will take him to the pharmacy. This time, you know the hypotenuse is 6.2 miles. You also know that one of the legs is 3 miles. That is Leg _____. You need to find Leg _____. Plug in and solve for letter, ____.
- 3. He also needs to find the distance from the west side the of the painters building to the mechanic, but first needs distance to find the distance from the mechanic to the vet. building to
- 4. Now that you know the distance from mechanic to the vet, you can find the from the west side of the painters



Solve here:

the mechanic.

5. He also needs to find the distance from the east side of the doctors office to the painter.

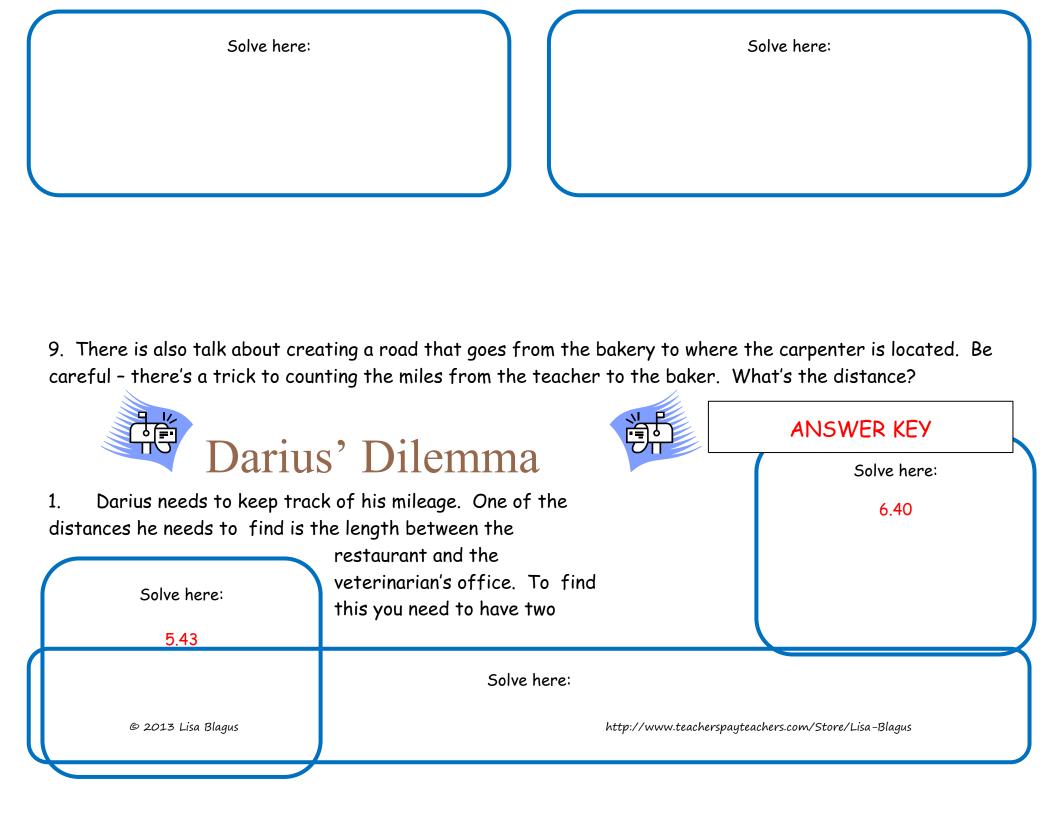
6. Darius needs to find the distance from the landscaper to the mechanic.

Solve here:

Solve here:

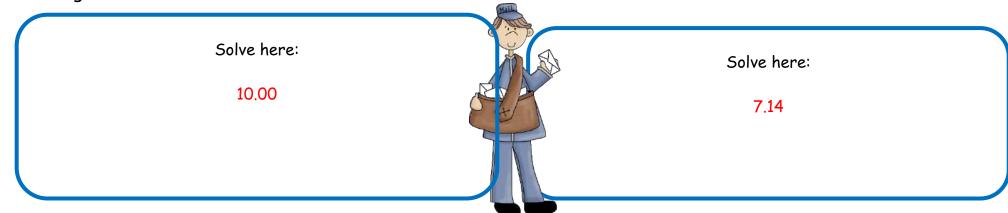
7. Solve for the distance between the landscaper and the farmer.

8. There is talk in the town of making a more direct road from the mechanic and the teacher. How long would the road be?



legs.	Leg a is from the _	_restaurant	to the _	school	and Leg b is from	the	school	to the
	_ <mark>vet</mark> . Plug the	e values in and	l solve fo	or letter, _	c			

- 2. Another distance is the length between the doctors' office and the stop sign to the south, which will take him to the pharmacy. This time, you know the hypotenuse is 6.2 miles. You also know that one of the legs is 3 miles. That is $Leg _a$. You need to find $Leg _b$. Plug in and solve for letter, $_c$.
- 3. He also needs to find the distance from the west side the of the painters building to the mechanic, but first needs distance to find the distance from the mechanic to the vet. building to
- 4. Now that you know the distance from mechanic to the vet, you can find the from the west side of the painters



the mechanic.

Solve here:	Solve here:
7.54	5.33
7. Solve for the distance between the landscaper	8. There is talk in the town of making a more
and the farmer.	direct road from the mechanic and the teacher.
Solve here:	Solve here:
5.46	13.60

areful -	there's a trick to counting the miles	from the teacher to	o the baker.	What's the distan	ce?
	6 and This Plant		bland de menor banal e esc	outsel and any (Chang) (in 2)	
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9. There is also talk about creating a road that goes from the bakery to where the carpenter is located. Be

