

Name: ..... Class: .....

Solve decimal problems using diagrams

The grocery shop is 16.5 miles south of lilian's school and 24.4 miles north of the children's hospital. The children's hospital is 25.6 miles west of the gift shop. Calculate the distance from lilian's school to the gift shop with the help of a diagram.



The barbing salon is 20.3 km west of the mall and 18.7 km east of the museum. The meseum is 10.9 km south of the art gallery. the game shop is 15.5 km east of the mall. What is closer to the mall, the game shop or the barbing salon.



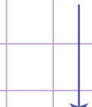
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The grocery shop is 16.5 miles south of lilian's school and 24.4 miles north of the children's hospital. The children's hospital is 25.6 miles west of the gift shop. Calculate the distance from lilian's school to the gift shop with the help of a diagram.

Let's first of all try to convert our story into a labelled diagram.

lilian's school



grocery shop



childrens hospital —————> gift shop.

now, let's calculate the distance by adding the miles between lilian's school and the gift shop.

$(16.5 + 24.4 + 25.6)$  miles = 66.5 miles.



The barbing salon is 20.3 km west of the mall and 18.7 km east of the meseum. The meseum is 10.9 km south of the art galary. the game shop is 15.5 km east of the mall What is closer to the mall, the game shop or the barbing salon.

let's first of all try to convert our story into a labelled diagram.

Art galary



meseum —————> barbing salon —————> mall —————> game shop

Now, let's find which is closer to the mall.

You see that, the barbing salon is 20.3 km away from the mall

the game stop is 15.5km away from the mall

So, since the distance of the game shop to ,the mall is shorter than the distance of the barbing salon to the mall, it implies that, the game shop is closer to the mall.

Finally, to find the distance between the art gtallery and the game shop, let's add all the distance between them.

$10.9 + 18.7 + 20.3 + 15.5$  km

But we know that,  $1 \text{ km} = 100\text{m}$

So,  $65.4 \text{ km} = 1000 \times 65.4 = 654,400$  meters

Therefore, distance from the art galary to the game store is 65,400 meters.

