

Measurement Distance, Time, Liquid Volume Word Problems Guided Lesson Explanation**Explanation to #1**

Step 1) Identify what is being asked of you,

“How much total time did Jack spend on his design work?”

Step 2) Jack spent his time on the flyer from 2:40 to 3:30

$$= 3:30 - 2:40 = 00:50$$

This means if 60 min = 1 hour

$$\text{Then } 50 \text{ min} = \frac{1 \times 50}{60} = \frac{5}{6} \text{ hours}$$

He spent $\frac{5}{6}$ hours designing the flyer.

Step 3) Jack spent his time on the magazine cover. - 3:30 to 4:30

$$= 4:30 - 3:30 = 01:00$$

This means 60 min = 1 hour

Step 4) Jack spent his time on the greeting card: - 4:35 to 5:15

$$= 5:15 - 4:35 = 00:40$$

This means if 60 min = 1 hour

$$\text{Then } 40 \text{ min} = \frac{1 \times 40}{60} = \frac{2}{3}$$

He spent $\frac{2}{3}$ hours on Christmas greetings

Step 4) Now, we have to add to get the total time.

$$\frac{5}{6} + \frac{2}{3} + 1 = \frac{5}{2} = 2.5 \text{ hours}$$

So, Jack spent 2 hours and 30 minutes on his design work.



Name _____

Date _____

Explanation to #2

Step 1) Identify what is to be calculated.

“How much money will Lilly earn?”

Step 2) If Lilly earns \$8.00 per hour then how much does she earn for 5 hours?

It means, for 1 hour she gets \$8.00

Then, for 5 hours she will get: $8 \times 5 = 40$.

So she will get \$40.00 for 5 hours.

Explanation to #3

Step 1) Identify what we have to find.

“How long will it take him to run that distance, if he maintains the same pace he had in the first race?”

Step 2) First, we have to convert meters to kilometers. As we know-

1000 meters = 1 kilometer

$$6000 \text{ meters} = \frac{1 \times 6000}{1000} = 6 \text{ Kilometers}$$

Now Ronald runs 6 kilometers in 2 hours. He has to cover 18 kilometers.

Step 3) Ronald covers 6 kilometers in 2 hours.

He covers 1 kilometer in $= \frac{2}{6}$ of an hour

He will cover 18 kilometers in $= \frac{2}{6} \times 18$

So it will take him 6 hours to cover 18 kilometers.

