

WORD PROBLEMS - TWO STEP

ANSWERS

1. Joseph wants to visit his grandparents in New York City. He needs \$550 for the trip. He already has \$79 saved up and makes \$60 per night at Jack's Seafood Restaurant. How many days would he need to work before he can afford to travel?

$\$550 - \$79 = \$471 / \$60 = 7.85$, so he would need to work 8 days.

3. Jane rides 2.4 miles from her house to school. After school, she rides 1.2 miles to the beach and then 1.7 miles back home. If Jane does this five days a week, how many miles does she ride each week?

$(2.4 + 1.2 + 1.7) \times 5 = 26.5$ miles / week

5. The longest wave in the world is called the Pororoca, which is located on the Amazon River in Brazil. Surfers ride the wave, which can be 11 feet tall and travel 12 miles per hour. The longest ride documented is about 35 minutes. If the wave traveled 12 miles per hour, how far did the person ride?

1 hour = 60 minutes, so $60/12 = 5$ minutes per mile. So every 5 minutes he traveled 1 mile... $35/5 = 7$ miles.

7. Cockroaches are one of the fastest insects on land. They can travel 4 miles per hour. How many minutes would it take a cockroach to travel 7 miles?

1 hour = 60 minutes. So $1/4$ of 60 minutes = 15 minutes.
 $7 \times 15 = 105$ minutes to travel 7 miles.

2. Henry wanted to know how many students liked the new lunch menu at his school. Instead of asking all 300 students, he took a quick survey in his classroom. Out of 24 students, 16 said they liked it and 8 said they did not. Based on these results about how many students in the entire school would like the menu?

$16/24$ liked it = $2/3$, so $2/3$ of 300. about 200 students like the new menu

4. Sam's rectangular yard is 20 yards by 40 yards. Danny's yard is two times bigger. What is the area of Danny's yard?
($A = l \times w$)

Need to double both length and width.
 $20 \times 2 = 40$ and $40 \times 2 = 80$, then find area. $40 \text{ yd} \times 80 \text{ yd} = 3,200$ square yd.

6. The average human can run six miles per hour. A Dragonfly can fly about sixty miles per hour. If a dragonfly travels for two hours and stops, how long would it take an average human to go the same distance?

2 hours \times 60 = 120 miles, so
 $120 \text{ miles} / 6 \text{ miles per hour} = 20$ hours.
OR $6/60 = 1/10$ so a human takes 10 times longer, so $10 \times 2 = 20$ hours.

8. Lance wants to buy three shirts that cost \$13, \$15, and \$20. What is the average cost of all three shirts?

$\$13 + \$15 + \$20 = \$48 / 3 =$
 $\$16$ is the average price per shirt