

WORD PROBLEMS - TWO STEP**ANSWERS**

1. While looking through the morning paper Hans notices two advertisements for candy bars. Lessway is selling 5 candy bars for \$2.00 and Malbersons is selling 4 for \$1.49.
- How much will 20 candy bars cost at each store?
 - At which store is the 20 candy bars cheaper and how much would he save there?

Part A: Lessway .. $4 \times \$2.00 = \8.00 and Malbersons .. $5 \times 1.49 = \$7.45$

Part B: Malbersons is cheaper by $\$8.00 - \$7.45 = \$0.55$

2. Dory wants to lay down carpet in three rooms of her house. The first two rooms are rectangular in shape and are both 15 feet by 20 feet. The third room is a square with one side measuring 16 feet. ($A = l \times w$)
- How much carpet will Dory need?
 - If the carpet cost \$3.00 per square foot, how much will it cost to do all three rooms?

Part A: $(15 \times 20) \times 2 = 600$ and $(16 \times 16) = 256$ so $600 + 256 = 856$ square feet

Part B: 856 square feet $\times \$3.00 = \$2,568.00$

3. Scott and Fritz run everyday. Scott leaves at 8:00 AM and returns at 10:00 AM. Fritz leaves at 10:30 AM and gets back at 1:00 PM.
- How much time does each person spend running everyday?
 - If Scott runs 6.5 miles per hour and Fritz runs 6 miles per hour, how far does each person run and who runs more?

Part A: Scott runs 2 hours and Fritz runs 2 1/2 hours

Part B: Scott - $2 \times 6.5 = 13$ miles and Fritz - $2.5 \times 6 = 15$ miles, so Fritz runs more by 2 miles

4. Rummy needs to take his car to the mechanic. He has two choices. Mechanic A tells him it will take 2 hours to do the job and he will charge him \$50.00 per hour. Mechanic B tells him it will take 1 hour 45 minutes and she will charge \$60.00 per hour.
- Which mechanic is cheaper?
 - How much will Rummy save by going to the cheaper mechanic?

Part A: Mechanic A .. $2 \text{ hours} \times \$50 = \100.00 and Mechanic B .. $1.75 \text{ hours} \times \$60 = \$105.00$

Part B: Mechanic A is cheaper by $\$105 - \$100 = \$5.00$

5. Mac wants to visit his mother. He has two routes to choose from. Route one is 175 miles but he can only drive 35 miles per hour the entire trip. Route two is 240 miles but he can drive 50 miles per hour the entire trip.
- Which way will take less time?
 - How many minutes will he save by taking the shorter time route?

Part A: Route 1 .. $175 \text{ mile} / 35 \text{ mph} = 5 \text{ hours}$ and Route 2 .. $240 \text{ miles} / 50 \text{ mph} = 4 \text{ hours and } 48 \text{ minutes}$

Part B: Route 2 shorter by $5 \text{ hours} - 4 \text{ hours and } 48 \text{ minutes} = 12 \text{ minutes}$

6. Victoria wants to buy a new surfboard that cost \$550.00. She has \$123.00 already saved and makes \$50.00 per day working at the movie theater.
- If she does not spend any of her money, how long will it take her to buy the board?
 - Unexpectedly her car breaks down. The repairs will cost \$199.00. How many more days will she have to work?

Part A: $\$550.00 - \$123.00 = \$427.00$ and $\$427.00 / \$50.00 = 8.54$ days

Part B: $\$199.00 / \$50.00 = 3.98$ extra days