1. Josiah bikes to downtown Menlo Park from his house in Mountain View, a distance of 8 miles. If it normally takes him 0.5 hours, how fast is he traveling (in mph)?
   \[
   16 \text{ mph} \quad \boxed{C}
   \]

2. Kristen can stay up on a wakeboard for 0.25 hours before she falls. If the boat is pulling her at 24 miles per hour, how far does she travel before she falls?
   \[
   6 \text{ miles} \quad \boxed{C}
   \]

3. Michael Phelps holds the world record in the 400-meter individual medley. If he is swimming at an average speed of \(1.6\) meters per second, what is his time (\(\text{min} \quad \text{sec}\))?
   \[
   4 \text{ min } 10 \text{ sec} \quad \boxed{C}
   \]

4. Juan is running laps around a track. He can run one lap (0.25 miles) in 2 minutes. If he runs at the same pace for 2 hours, how far will he run?
   \[
   10 \text{ miles} \quad \boxed{C}
   \]

5. It is 5 am, and Emily needs to get to swim practice by 7 am. If the pool is 120 miles away and it will take her 24 minutes to get ready to leave, how fast must she drive to arrive on time?
   A. 50 mph
   B. 60 mph
   C. 65 mph
   D. 75 mph
   \[
   \boxed{C}
   \]

6. At a certain bakery, they produce chocolate chip cookies at a rate of 35 cookies per hour. If they have an order for 2,870 chocolate chip cookies, how many hours will it take them to complete the order?
   A. 35 hours
   B. 82 hours
   C. 107 hours
   D. 128 hours
   \[
   \boxed{C}
   \]

7. Bear Grylls and Survivorman are hiking in the same direction through the wilderness. Bear Grylls is traveling at 0.8 mph while Survivorman is traveling at 1.2 mph. After hiking for 12 hours, how far apart will they be?
   A. 0.4 miles
   B. 1.5 miles
   C. 4.8 miles
   D. 6.2 miles
   \[
   \boxed{C}
   \]

8. Fifteen people are in line waiting to use the ATM. If there are 2 ATM machines and each person takes an average of 4 minutes at the ATM, how long will it take for the last person to use the machine?
   A. 32 minutes
   B. 40 minutes
   C. 50 minutes
   D. 1 hour
   \[
   \boxed{C}
   \]
9. Bryan and Mark swim together at the pool at the same speed. If it takes Bryan 18 minutes to swim 10 laps, how long would it take Mark to swim 25 laps?
   A. 40 minutes
   B. 45 minutes
   C. 54 minutes
   D. 1 hour 18 minutes
   C

10. Brett is driving across the country (3,000 miles). If he drives 12 hours a day for 2 days at 60 mph and 3 days at 40 mph, how many miles does he have left?
   A. 0 miles
   B. 60 miles
   C. 120 miles
   D. 180 miles
   ?

11. If a bee produces honey at $x$ grams per minute, then the number of grams of honey produced in 4 hours 12 minutes may be found by
   A. $4.2x$
   B. $x$
   C. $\frac{x}{252}$
   D. $252x$
   C

12. Rachel finished $\frac{3}{4}$ of her homework between 3:00 pm and 6:00 pm. She needs to finish all her work by 10:00 pm. If she works at the same rate, how long can she stop to eat dinner for before returning to her homework?
   ?

13. A farmer purchases 4 pigs at a cost of $150 each. How much pork must the farmer sell at $6.00 per lb in order to cover the cost of purchasing the pigs?
   A. 20 lbs
   B. 100 lbs
   C. 150 lbs
   D. 600 lbs
   C

14. Jake can build a sand castle in 2 hours. His younger brother can build a sand castle in 8 hours. How long will it take them if they decide to build a sand castle together?
   A. 1 hour
   B. 1 hour 36 minutes
   C. 1 hour 50 minutes
   D. 2 hours 12 minutes
   B

15. Jesse leaves L.A. and travels towards Boston at 60 mph, a distance of 3,000 miles. At the same time, James leaves Boston and travels towards L.A. at 65 mph. About how much time will pass before they meet if they do not stop?
   A. 1 day
   B. 2 days
   C. 3 days
   D. 4 days
   C

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