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Question: 1

A man earns \$15.23 per hour and gets a raise of \$2.34 per hour. What is his new hourly rate of pay?

- A. \$12.89
- B. \$15.46
- C. \$17.57
- D. \$35.64

Answer: C

Explanation:

To calculate his new hourly rate, add his raise to his original hourly rate.

$$\$15.23 + \$2.34 = \$17.57$$

Therefore, the man's new hourly rate is \$17.57.

Question: 2

A man buys two shirts. One is \$7.50 and the other is \$3.00. A 6% tax is added to his total. How much does he pay in all?

- A. \$10.50
- B. \$11.13
- C. \$14.58
- D. \$16.80

Answer: B

Explanation:

First, find the total before taxes.

$$\$7.50 + \$3.00 = \$10.50$$

Then, calculate 6% of the total.

$$\$10.50 \times 0.06 = \$0.63$$

Finally, add the tax to find how much he pays in all.

$$\$10.50 + \$0.63 = \$11.13$$

Therefore, he pays \$11.13.

Question: 3

How many people can travel on 6 planes if each plane carries 300 passengers?

- A. 1,800
- B. 1,200
- C. 600
- D. 350

Answer: A

Explanation:

To find the total number of passengers, multiply the number of planes by the number of passengers each plane can hold.

$$6 \times 300 = 1,800$$

Therefore, 1,800 people can travel on 6 planes.

Question: 4

A company employing 540 individuals plans to increase its workforce by 13%. How many people will the company employ after the expansion? Round to the nearest whole number.

- A. 527
- B. 547
- C. 553
- D. 610

Answer: D

Explanation:

First calculate 13% of 540.

$$540 \times 0.13 = 70.2$$

This can be rounded to 70. Then, add this value onto the original number of workers.

$$540 + 70 = 610$$

After the expansion, the company will employ 610 people.

Question: 5

A woman must earn \$250 in the next four days to pay a traffic ticket. How much will she have to earn each day?

- A. \$45.50
- B. \$62.50
- C. \$75.50
- D. \$100.50

Answer: B

Explanation:

The woman has four days to earn \$250. To find the amount she must earn each day, divide the amount she must earn by 4.

$$250 \div 4 = \$62.50$$

Therefore, she must earn \$62.50 each day.

Question: 6

A mountain climber climbs through rough terrain. She climbs 480 feet, 610 feet, 295 feet, and 303 feet over a period of 4 days. Estimate the distance she climbs over the four-day period to the nearest hundred feet.

- A. 1,500 feet
- B. 1,600 feet
- C. 1,700 feet
- D. 1,800 feet

Answer: C

Explanation:

A quick estimation of the number of feet the mountain climber climbs is found by rounding each day's climb to the nearest hundred feet and finding the sum. 480 rounds to 500, 610 rounds to 600, 295 rounds to 300, and 303 also rounds to 300.

$$500 + 600 + 300 + 300 = 1,700$$

Therefore, she climbed approximately 1,700 feet.

Question: 7

Two women have credit cards. One earns 3 points for every dollar she spends. The other earns 6 points for every dollar she spends. If they each spend \$5.00, how many combined total points will they earn?

- A. 15
- B. 30
- C. 45
- D. 60

Answer: C

Explanation:

First figure out how many points the first woman will earn.

$$3 \times 5 = 15$$

Then, figure out how many points the second woman will earn.

$$6 \times 5 = 30$$

Finally, add these two values together.

$$15 + 30 = 45$$

Therefore, the two women will have a combined total of 45 points.

Question: 8

If a chef can make 25 pastries in a day, how many can he make in a week?

- A. 32
- B. 74
- C. 126
- D. 175

Answer: D

Explanation:

Knowing that the chef can make 25 pastries in a day and that there are 7 days in a week, the weekly number can be calculated by multiplying 25 by 7.

$$25 \times 7 = 175$$

Therefore, the chef can make 175 pastries in a week.

Question: 9

A 13-story building has 65 apartments. If each floor has an equal number of apartments, how many apartments are on each floor?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: D

Explanation:

To find the number of apartments on each floor, divide the total number of apartments by the number of floors.

$$65 \div 13 = 5$$

Therefore, there are 5 apartments on each floor.

Question: 10

A fruit vendor has 52 mangoes, 88 kiwis, 48 pineapples, and 45 papayas. How many pieces of fruit does the vendor have?

- A. 221
- B. 231
- C. 233
- D. 243

Answer: C

Explanation:

The number of pieces of fruit that the vendor has is equal to the sum of the numbers of individual types of fruit. The number equals $52 + 88 + 48 + 45$, or 233 pieces of fruit.

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