

***LHF STUDY GUIDE* PASS THE HiSET® MATH TEST!**

WORD PROBLEMS

Test Lessons 1 - 4 Answers – p. 5

1. Mike's cell phone plan charges \$32.50 per month. It includes unlimited texts and the first 60 phone calls are also included in the monthly charge. Any additional phone calls are billed at 7¢ per call. Which of the following expressions represents his cell phone bill in a month where Mike makes 75 phone calls?

- A. $\$32.50 + (\$0.70)(15)$ B. $\$32.50 + (\$0.07 \times 75)$ C. $\$32.50 + 60$
D. $\$32.50 + (\$0.07)(15)$ E. $\$32.50 + (\$0.07 \times 60)$

2. The telephone company charges a monthly fee of \$45 which includes unlimited local calls and 25 long distance calls. Additional long distance calls are billed at 59¢ per call. If Bob makes 48 local calls and 45 long distance calls, what is his monthly bill?

- A. \$59.75 B. \$71.55 C. \$73.32 D. \$45.59 E. \$56.80

3. The Paper Mart offers a rebate of \$1.50 per case for half of the cases of copy paper that a company buys during the year. How much of a rebate can a company get if it purchased 440 cases of paper last year?

- A. \$330 B. \$660 C. \$303 D. \$220 E. \$333

4. The temperature was -5°F when Jeannie woke up at 5:00 A.M., and the weather report predicted an increase of 2°F per hour during the day. What temperature in $^{\circ}\text{F}$ should Jeannie expect to find at 2:00 P.M. that afternoon?

- A. -13 B. 13 C. -15 D. 15 E. 10

5. Leon spent a total of \$450 on new dinner plates for his restaurant. If each plate cost \$3, how many plates did he buy?

- A. 1,350 B. 510 C. 150 D. 105 E. 453

6. To rent a car it costs \$18 per day and 12 cents for every mile driven over 250 miles. If Mateo rents a car for 6 days and drives 625 miles, which of the following expressions show how much it will cost to rent the car?

- A. $\$18 \times 6 + \$12 \times (625 - 250)$ B. $\$18 \times 6 + \$0.12 \times (625 - 250)$
C. $\$18 \times 6 + (625 - 250)$ D. $\$18 + 6 \times 250$
E. $\$18 \times 6 + 625 \times \0.12

7. Aisha can buy a home entertainment system for \$2,650 cash, or she can make payments of \$130 per month for 2 years. Which expression shows how much she will save by paying cash?

- A. $(\$130 \times 24) - \$2,650$ B. $\$2,650 - (\$130 \times 24)$ C. $\$2,650 - (\$130 \times 12)$
D. $(\$130 \times 2) - \$2,650$ E. $(\$2,650 - \$130) \times 24$

8. Sarah made 64 cakes to sell in her bake shop at a cost of \$3.25 in ingredients for each cake. How many cakes will she need to sell at \$16 each in order to cover the cost of ingredients for all 64 cakes?

- A. 20 B. 208 C. 16 D. 13 E. 31

9. The machine at Speedy Car Wash can wash 12 cars per hour. Speedy Car Wash is open 9 hours per day and 6 days per week. Which expression shows the maximum number of cars that could be washed in 1 week?

- A. $12 \times 9 + 6$ B. $12 + 9 + 6$ C. $(12 \times 9) \div 6$ D. $12 + 9 \times 6$ E. $12 \times 9 \times 6$

10. At the Signal Mountain observatory tower, the temperature was 14°F at 9:00 A.M., and by 5:00 P.M. it had fallen to -10°F . What was the average temperature decrease per hour in $^{\circ}\text{F}$ between 9:00 A.M. and 5:00 P.M.?

- A. 2 B. 1 C. 3 D. 4 E. 24

11. Liza is ordering advertising posters for her company. She can choose 2, 3, or 4 color printing, matte or glossy finish, and 2, 4, or 6 square feet for the size. If any combination of color number, finish, and size can be ordered, how many different styles of posters could Liza choose for her company?

- A. 27 B. 18 C. 8 D. 36 E. 24

12. Robert buys an average of 11 pounds of chicken every week. How many pounds of chicken will he buy over the next $9\frac{1}{2}$ weeks at this same rate?

- A. $20\frac{1}{2}$ B. $140\frac{1}{2}$ C. $144\frac{1}{2}$ D. 140 E. $104\frac{1}{2}$

13. Andrew can clean and peel 4 shrimp per minute at his restaurant job. How many shrimp can he clean and peel in 5 days if he spends 2 hours per day at this task?

- A. 240 B. 480 C. 2,400 D. 40 E. 1,200

14. At Byron Sub Shop customers can choose from 4 kinds of bread, 12 kinds of meat, and 5 kinds of cheese. Choose an expression that shows the number of different possible combinations of one bread, one meat, and one cheese.

- A. $4 \times 12 \times 5$ B. $4(12 + 5)$ C. $(4 + 12)(5)$ D. $4 + 12 + 5$ E. $4 \times 12 + 5$

15. Angela is buying 20 desk lamps for her office. Deluxe style lamps are \$39.99 each, and Economy style lamps are \$28.99 each. Which expression shows how much she will save by choosing the less expensive lamp style?

- A. $20(\$39.99 + \$28.99)$ B. $\$39.99 - \28.99 C. $20(\$39.99 - \$28.99)$
D. 20×28.99 E. $(\$39.99 \times 20) + (\$28.99 \times 20)$

16. Outside temperature was recorded at Statesville Municipal Airport at 6:00 A.M. every day for the entire year. The highest temperature was 32 degrees Celsius and the lowest temperature was -18 degrees Celsius. What was the range between the highest temperature and the lowest temperature in degrees Celsius?

- A. 50 B. 14 C. 55 D. 15 E. 51

17. Lisa bought a bottle of shampoo for \$2.99, a box of tissues for \$1.29, and a hairbrush for \$7.99. Which expression shows how much change she will receive if she pays with a 20 dollar bill? (Assume there is no sales tax.)

- A. $(\$2.99 + \$1.29 + \$7.99) - \20.00 B. $\$20.00 - \$2.99 + \$1.29 + \7.99
C. $\$20.00 - (\$2.99 + \$1.29 + \$7.99)$ D. $\$20.00 + \$2.99 + \$1.29 + \7.99
E. $\$20.00 - (\$2.99 - \$1.29 - \$7.99)$

18. Nelson opened a bank account with a deposit of \$950. During the week, he deposited his paycheck of \$1,495.63, and he wrote two checks: \$42.74 for his phone bill, and \$115.69 for his cable bill. He also got \$30 from the ATM machine on Monday and another \$25 on Friday. What is his bank balance at the end of the week?

- A. \$1,282.20 B. \$2,322.20 C. \$2,287.20 D. \$2,257.20 E. \$2,232.20

19. The Belmont High School band needs to raise money for the annual band trip. So far, they have donations of \$2,000, and the school will contribute \$4,000 from its budget. The rest will be raised by selling tickets to a band concert. The total amount needed for the trip is \$7,500. If each concert ticket costs \$10, how many tickets must be sold to reach the \$7,500 total?

- A. 1,500 B. 105 C. 750 D. 150 E. 200

20. Joe earns \$900 base pay plus a \$100 commission per car for the first 10 cars he sells each month. Any additional cars he sells earn him a commission rate that is 1.5 times the rate for the first 10 cars. How much will Joe earn in a month where he sells 14 cars?

- A. \$2,300 B. \$2,500 C. \$1,900 D. \$2,400 E. \$2,600

21. The 45 employees of a restaurant were all given 3 new uniform shirts. If each shirt cost \$8.75, which expression shows how much it cost to purchase all of the shirts?

- A. $45 \times 3 \div \$8.75$ B. $45 \times 3 \times \$8.75$ C. $45 \div 3 \times \$8.75$
D. $45 \div 3 \div \$8.75$ E. $45 \times \$8.75$

22. Bridal Bliss pays their salespeople a \$19 commission per dress for the first 55 wedding dresses sold each month. The commission per dress for any additional dresses sold beyond 55 is 2 times the rate of the first 55 dresses. If a salesperson sells 75 dresses in a month, how much commission will be earned?

- A. \$1,805 B. \$1,425 C. \$1,045 D. \$3,895 E. \$1,850

ANSWER KEY Word Problems Test Lessons 1 – 4

1. Mike's cell phone plan charges \$32.50 per month. It includes unlimited texts and the first 60 phone calls are also included in the monthly charge. Any additional phone calls are billed at 7¢ per call. Which of the following expressions represents his cell phone bill in a month where Mike makes 75 phone calls?

- A. $\$32.50 + (\$0.70)(15)$ B. $\$32.50 + (\$0.07 \times 75)$ C. $\$32.50 + 60$
D. **$\$32.50 + (\$0.07)(15)$** E. $\$32.50 + (\$0.07 \times 60)$

Add together the cost for the monthly charge and the cost for the additional phone calls. Monthly charge is **\$32.50**.

There are 75 total phone calls and 60 of the calls are free. $75 - 60 = 15$, so 15 phone calls will be charged.

Each of these 15 calls is charged at 7¢ per call, so that will be **$(\$0.07)(15)$** .

ANSWER: D. $\$32.50 + (\$0.07)(15)$

2. The telephone company charges a monthly fee of \$45 which includes unlimited local calls and 25 long distance calls. Additional long distance calls are billed at 59¢ per call. If Bob makes 48 local calls and 45 long distance calls, what is his monthly bill?

- A. \$59.75 B. \$71.55 C. \$73.32 D. \$45.59 E. **\$56.80**

Add together the monthly fee + cost of local calls + cost of long distance calls.

Monthly fee = **\$45**.

Cost of local calls = **\$0**, because the monthly fee includes unlimited local calls.

Cost of long distance calls is 20 calls \times \$0.59 = **\$11.80**.

25 long distance calls are included in the monthly fee, so

$45 - 25 = 20$ long distance calls that are charged the \$0.59 fee.

$\$45 + \$0 + \$11.8 = \56.80

ANSWER: E. \$56.80

3. The Paper Mart offers a rebate of \$1.50 per case for half of the cases of copy paper that a company buys during the year. How much of a rebate can a company get if it purchased 440 cases of paper last year?

- A. **\$330** B. \$660 C. \$303 D. \$220 E. \$333

Calculate the number of cases that qualify for a rebate, and multiply by \$1.50 each.

Cases that qualify are half of the total cases, so $440 \times \frac{1}{2} = 220$ cases.

$220 \times \$1.50 = \330

ANSWER: A. \$330

4. The temperature was -5°F when Jeannie woke up at 5:00 A.M., and the weather report predicted an increase of 2°F per hour during the day. What temperature in $^{\circ}\text{F}$ should Jeannie expect to find at 2:00 P.M. that afternoon?

- A. -13 **B. 13** C. -15 D. 15 E. 10

Start with -5°F at 5:00 A.M. and add 2 degrees every hour until you get to 2:00 P.M.

5:00 A.M.	-5°
6:00 A.M.	-3°
7:00 A.M.	-1°
8:00 A.M.	1°
9:00 A.M.	3°
10:00 A.M.	5°
11:00 A.M.	7°
12:00 NOON	9°
1:00 P.M.	11°
2:00 P.M.	13°

ANSWER: B. 13

OR

Calculate number of hours, calculate temperature increase, and add that many degrees to the starting temperature.

Step 1 Number of hours is $7 + 2 = 9$.

7 hours from 5:00 A.M. until 12:00 NOON, plus 2 hours from 12:00 NOON until 2:00 P.M.

Step 2 Temperature increase is $2^{\circ} \times 9 \text{ hours} = 18^{\circ}$.

Step 3 Add to starting temperature: $-5^{\circ} + 18^{\circ} = 13^{\circ}$. **ANSWER: B. 13**

5. Leon spent a total of \$450 on new dinner plates for his restaurant. If each plate cost \$3, how many plates did he buy?

- A. 1,350 B. 510 **C. 150** D. 105 E. 453

Divide the total spent by the cost per plate to get the number of plates.

$$\$450 \div \$3 = 150$$

ANSWER: C. 150

OR

Set up a proportion. $\frac{\text{Cost}}{\# \text{ of plates}} \quad \frac{\$3}{1} = \frac{\$450}{?} \quad \$450 \times 1 \div \$3 = 150$

6. To rent a car it costs \$18 per day and 12 cents for every mile driven over 250 miles. If Mateo rents a car for 6 days and drives 625 miles, which of the following expressions show how much it will cost to rent the car?

- A. $\$18 \times 6 + \$12 \times (625 - 250)$ **B. $\$18 \times 6 + \$0.12 \times (625 - 250)$**
C. $\$18 \times 6 + (625 - 250)$ D. $\$18 + 6 \times 250$
E. $\$18 \times 6 + 625 \times \0.12

Calculate the rental charge and the mileage charge, then add together.

Rental charge is \$18 per day x 6 days, or $\$18 \times 6$.

Miles charged are $625 - 250$. These miles must be multiplied by the \$0.12 per mile cost, so mileage charge is $\$0.12 \times (625 - 250)$.

Add the two charges together.

ANSWER: B. $\$18 \times 6 + \$0.12 \times (625 - 250)$

7. Aisha can buy a home entertainment system for \$2,650 cash, or she can make payments of \$130 per month for 2 years. Which expression shows how much she will save by paying cash?

- A. $(\$130 \times 24) - \$2,650$** B. $\$2,650 - (\$130 \times 24)$ C. $\$2,650 - (\$130 \times 12)$
D. $(\$130 \times 2) - \$2,650$ E. $(\$2,650 - \$130) \times 24$

Calculate the total cost of the payment plan, and then subtract the cash price.

Payment plan cost is $\$130 \times 24$ months.

Cash price is \$2,650.

ANSWER: A. $(\$130 \times 24) - \$2,650$

Note that you subtract the lower cash price from the higher payment plan price, which is answer A, not the other way around, which is answer B.

8. Sarah made 64 cakes to sell in her bake shop at a cost of \$3.25 in ingredients for each cake. How many cakes will she need to sell at \$16 each in order to cover the cost of ingredients for all 64 cakes?

- A. 20 B. 208 C. 16 **D. 13** E. 31

Calculate the cost of ingredients to make the 64 cakes, and divide by \$16 to see how many cakes must be sold to cover the cost of the ingredients.

Cost of ingredients is $64 \times \$3.25 = \208 .

$\$208 \div \$16 = 13$

ANSWER: D. 13

9. The machine at Speedy Car Wash can wash 12 cars per hour. Speedy Car Wash is open 9 hours per day and 6 days per week. Which expression shows the maximum number of cars that could be washed in 1 week?

- A. $12 \times 9 + 6$ B. $12 + 9 + 6$ C. $(12 \times 9) \div 6$ D. $12 + 9 \times 6$ **E. $12 \times 9 \times 6$**

You are given 12 cars per hour.

First calculate cars per day. Multiply by 9 hours per day. 12×9

Then calculate cars per week. Multiply by 6 days per week. $12 \times 9 \times 6$

ANSWER: E. $12 \times 9 \times 6$

10. At the Signal Mountain observatory tower, the temperature was 14°F at 9:00 A.M., and by 5:00 P.M. it had fallen to -10°F . What was the average temperature decrease per hour in $^{\circ}\text{F}$ between 9:00 A.M. and 5:00 P.M.?

- A. 2 B. 1 **C. 3** D. 4 E. 24

Calculate the amount of temperature decrease and the number of hours, then divide.

Step 1 Subtract high temperature minus low temperature.

$$14^{\circ} - (-10^{\circ}) = 24^{\circ}. \text{ Temperature decrease is } 24^{\circ}.$$

Or, visualize the distance between -10 and 14 on a number line.

Step 2 Number of hours is $3 + 5 = 8$.

3 hours from 9:00 A.M. until 12:00 NOON, plus 5 hours from 12:00 NOON until 5:00 P.M.

Step 3 Divide $24^{\circ} \div 8 = 3^{\circ}$.

ANSWER: C. 3

OR

Use trial and error. Start with 14°F at 9:00 A.M., and test each answer until you find the one that brings you to the desired ending temperature of -10°F at 5:00 P.M.

Try A. 2° decrease per hour

9:00 A.M.	14°
10:00 A.M.	12°
11:00 A.M.	10°
12:00 NOON	8°
1:00 P.M.	6°
2:00 P.M.	4°
3:00 P.M.	2°
4:00 P.M.	0°
5:00 P.M.	-2°

It is not -10° at 5:00 P.M.

A. 2° is not correct.

Try B. 1° decrease per hour

9:00 A.M.	14°
10:00 A.M.	13°
11:00 A.M.	12°
12:00 NOON	11°
1:00 P.M.	10°
2:00 P.M.	9°
3:00 P.M.	8°
4:00 P.M.	7°
5:00 P.M.	6°

It is not -10° at 5:00 P.M.

B. 1° is not correct.

Try C. 3° decrease per hour

9:00 A.M.	14°
10:00 A.M.	11°
11:00 A.M.	8°
12:00 NOON	5°
1:00 P.M.	2°
2:00 P.M.	-1°
3:00 P.M.	-4°
4:00 P.M.	-7°
5:00 P.M.	-10°

It is -10° at 5:00 P.M.

C. 3° is correct.

11. Liza is ordering advertising posters for her company. She can choose 2, 3, or 4 color printing, matte or glossy finish, and 2, 4, or 6 square feet for the size. If any combination of color number, finish, and size can be ordered, how many different styles of posters could Liza choose for her company?

- A. 27 **B. 18** C. 8 D. 36 E. 24

Multiply the number of choices in each category. $3 \times 2 \times 3 = 18$

Number of colors: 3 choices.

Finish: 2 choices.

Size: 3 choices.

$$3 \times 2 \times 3 = 18$$

ANSWER: B. 18

12. Robert buys an average of 11 pounds of chicken every week. How many pounds of chicken will he buy over the next $9\frac{1}{2}$ weeks at this same rate?

- A. $20\frac{1}{2}$ B. $140\frac{1}{2}$ C. $144\frac{1}{2}$ D. 140 **E. $104\frac{1}{2}$**

Multiply 11 pounds per week times $9\frac{1}{2}$ weeks.

$$11 \times 9\frac{1}{2} = 104\frac{1}{2}$$

ANSWER: E. $104\frac{1}{2}$

TIP: Enter $9\frac{1}{2}$ into the calculator as 9.5, or use the abc key by entering 9 abc 1 abc 2.

13. Andrew can clean and peel 4 shrimp per minute at his restaurant job. How many shrimp can he clean and peel in 5 days if he spends 2 hours per day at this task?

- A. 240 B. 480 **C. 2,400** D. 40 E. 1,200

You are given 4 shrimp cleaned and peeled per minute.

First calculate the number of shrimp he can clean and peel in 1 hour.

$$4 \text{ shrimp per minute} \times 60 \text{ minutes in 1 hour} = 240 \text{ shrimp in 1 hour.}$$

Next calculate how many shrimp he can clean and peel in 1 day.

$$240 \text{ shrimp per hour} \times 2 \text{ hours each day} = 480 \text{ shrimp in 1 day.}$$

Then multiply by 5 to get shrimp cleaned and peeled in 5 days.

$$480 \text{ shrimp per day} \times 5 \text{ days} = 2,400 \text{ shrimp in 5 days.}$$

ANSWER: C. 2,400

14. At Byron Sub Shop customers can choose from 4 kinds of bread, 12 kinds of meat, and 5 kinds of cheese. Choose an expression that shows the number of different possible combinations of one bread, one meat, and one cheese.

- A. $4 \times 12 \times 5$ B. $4(12 + 5)$ C. $(4 + 12)(5)$ D. $4 + 12 + 5$ E. $4 \times 12 + 5$

Multiply the number of choices in each category.

4 breads x 12 meats x 5 cheeses

ANSWER: A. $4 \times 12 \times 5$

15. Angela is buying 20 desk lamps for her office. Deluxe style lamps are \$39.99 each, and Economy style lamps are \$28.99 each. Which expression shows how much she will save by choosing the less expensive lamp style?

- A. $20(\$39.99 + \$28.99)$ B. $\$39.99 - \28.99 C. **$20(\$39.99 - \$28.99)$**
D. 20×28.99 E. $(\$39.99 \times 20) + (\$28.99 \times 20)$

Calculate the savings on 1 lamp by subtracting the lower cost from the higher cost, then multiply the savings x 20 lamps.

Savings on 1 lamp: $\$39.99 - \28.99

Savings on 20 lamps: $20(\$39.99 - \$28.99)$

ANSWER: C. $20(\$39.99 - \$28.99)$

16. Outside temperature was recorded at Statesville Municipal Airport at 6:00 A.M. every day for the entire year. The highest temperature was 32 degrees Celsius and the lowest temperature was -18 degrees Celsius. What was the range between the highest temperature and the lowest temperature in degrees Celsius?

- A. **50** B. 14 C. 55 D. 15 E. 51

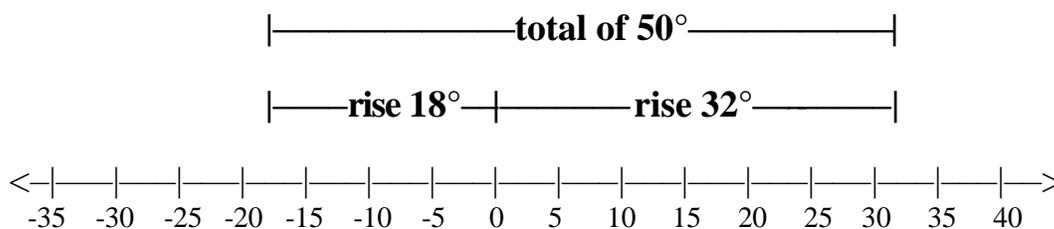
Subtract the low temperature from the high temperature.

$$32^\circ - (-18^\circ) = 50^\circ$$

ANSWER: A. 50

OR

Visualize rising 18 degrees from the -18°C low temperature to get up to 0°C , plus another 32 degrees to get from 0°C to the high temperature of 32°C , for a total range of $18^\circ + 32^\circ = 50^\circ$. Drawing a number line may be helpful.



17. Lisa bought a bottle of shampoo for \$2.99, a box of tissues for \$1.29, and a hairbrush for \$7.99. Which expression shows how much change she will receive if she pays with a 20 dollar bill? (Assume there is no sales tax.)

- A. $(\$2.99 + \$1.29 + \$7.99) - \20.00 B. $\$20.00 - \$2.99 + \$1.29 + \7.99
C. **$\$20.00 - (\$2.99 + \$1.29 + \$7.99)$** D. $\$20.00 + \$2.99 + \$1.29 + \7.99
E. $\$20.00 - (\$2.99 - \$1.29 - \$7.99)$

Subtract all of the expenses from \$20. To do this, add up the expenses, put them in parentheses, and subtract from \$20.

The expenses are $(\$2.99 + \$1.29 + \$7.99)$

ANSWER: C. $\$20.00 - (\$2.99 + \$1.29 + \$7.99)$

NOTE: the minus sign in front of the parentheses means to subtract everything inside the parentheses, so answer C is correct.

Answer E is not correct, because it says to subtract \$2.99, $-\$1.29$, and $-\$7.99$ instead of subtracting \$2.99, \$1.29, and \$7.99.

18. Nelson opened a bank account with a deposit of \$950. During the week, he deposited his paycheck of \$1,495.63, and he wrote two checks: \$42.74 for his phone bill, and \$115.69 for his cable bill. He also got \$30 from the ATM machine on Monday and another \$25 on Friday. What is his bank balance at the end of the week?

- A. \$1,282.20 B. \$2,322.20 C. \$2,287.20 D. \$2,257.20 **E. \$2,232.20**

Start with the opening balance, subtract checks and cash taken out, and add checks and cash deposited.

$$\$950 + \$1,495.63 - \$42.74 - \$115.69 - \$30 - \$25 = \$2,232.20$$

ANSWER: E. \$2,232.20

19. The Belmont High School band needs to raise money for the annual band trip. So far, they have donations of \$2,000, and the school will contribute \$4,000 from its budget. The rest will be raised by selling tickets to a band concert. The total amount needed for the trip is \$7,500. If each concert ticket costs \$10, how many tickets must be sold to reach the \$7,500 total?

- A. 1,500 B. 105 C. 750 **D. 150** E. 200

First calculate how much money still has to be raised, then divide by \$10 to see how many tickets need to be sold to raise that amount of money.

They need \$7,500 total, and they have \$6,000 so far, so they still need

$$\$7,500 - \$6,000 = \$1,500.$$

$$\$1,500 \div \$10 = 150$$

ANSWER: D. 150

- 20.** Joe earns \$900 base pay plus a \$100 commission per car for the first 10 cars he sells each month. Any additional cars he sells earn him a commission rate that is 1.5 times the rate for the first 10 cars. How much will Joe earn in a month where he sells 14 cars?
A. \$2,300 **B. \$2,500** C. \$1,900 D. \$2,400 E. \$2,600

Calculate separately then add together three pieces: base pay + commission on the first 10 cars sold + commission on the rest of the cars sold.

1. Base pay = **\$900**.
2. Commission on the first 10 cars is \$100 each, and $\$100 \times 10 = \mathbf{\$1,000}$.
3. Commission rate for the rest of the cars is 1.5 times the first rate, or $1.5 \times \$100 = \150 each.

The cars that get this rate are the total sold minus the first 10 sold, or $14 - 10 = 4$.
Commission on these cars is $\$150 \times 4 = \mathbf{\$600}$.

Add together the three pieces. $\$900 + \$1,000 + \$600 = \$2,500$

ANSWER: B. \$2,500

- 21.** The 45 employees of a restaurant were all given 3 new uniform shirts. If each shirt cost \$8.75, which expression shows how much it cost to purchase all of the shirts?
A. $45 \times 3 \div \$8.75$ **B. $45 \times 3 \times \$8.75$** C. $45 \div 3 \times \$8.75$
D. $45 \div 3 \div \$8.75$ E. $45 \times \$8.75$

Calculate the total number of shirts, then multiply by the cost of each shirt.

There are 45 employees, and each gets 3 shirts, so there are 45×3 total shirts. Then multiply by the \$8.75 cost of each shirt.

ANSWER: B. $45 \times 3 \times \$8.75$

- 22.** Bridal Bliss pays their salespeople a \$19 commission per dress for the first 55 wedding dresses sold each month. The commission per dress for any additional dresses sold beyond 55 is 2 times the rate of the first 55 dresses. If a salesperson sells 75 dresses in a month, how much commission will be earned?
A. **\$1,805** B. \$1,425 C. \$1,045 D. \$3,895 E. \$1,850

Calculate separately the commission for the first 55 dresses, and the commission for the rest of the dresses, and then add the two commissions together.

1. Commission for the first 55 dresses is \$19 per dress, so $\$19 \times 55 = \$1,045$.
2. Commission for the rest of the dresses is at 2 times the rate, or $2 \times \$19 = \38 per dress. There are $75 - 55 = 20$ dresses at this rate, and $20 \times \$38 = \760 .

Add together both commissions. $\$1,045 + \$760 = \$1,805$

ANSWER: A. \$1,805