

Name _____ Class _____ Date _____

$$22 + 22(8) = 32$$

SELECTED RESPONSE

1. A mover notes the weights of a table and 4 chairs and records $t + 4c \geq 100$ on his invoice. What is he communicating?
- A. The table and 4 chairs each weigh more than 100 pounds.
 - B. The table and 4 chairs weigh at most 100 pounds.
 - C. The table and 4 chairs weigh around 100 pounds, give or take a little.
 - D. The table and 4 chairs weigh at least 100 pounds.

2. Hannah has \$175 to spend. She buys \$120 worth of non-taxable items. Some other items are taxable at 6%. Which inequality shows how much she can spend on taxable items before tax is applied?
- F. $x \leq \$3.30$
 - H. $x \leq \$51.89$
 - G. $x \leq \$45.09$
 - J. $x \leq \$165.09$
- SS is 106% x*
SS 1.06

3. Brad bought a skateboard for \$2 less than half its original price. If he paid \$21.50, which skateboard did he buy?

Skateboard	Price (\$)
Go Green	45
Speedster	47
Up and Down	43
With the Flow	41

- A. Go Green
 - B. Speedster
 - C. Up and Down
 - D. With the Flow
4. Ken has \$18 to spend on two models of the solar system and supplies to paint them. The two models cost the same amount. His paint supplies cost \$4.62. Which expression indicates how much he can spend on each model?
- F. $x \leq \$6.69$
 - H. $x \leq \$13.38$
 - G. $x \geq \$6.69$
 - J. $x \geq \$13.38$

5. Mrs. Hughes' class has 22 students. Her principal tells her that her class will increase to 30 students. Which equation can be used to find the percent increase?

- A. $22 + x = 30$
 - B. $22 = 30x$
 - C. $22 + 22x = 30$
 - D. $30 - 22x = x$
- 30 - 22*
8 / 22 x 100

6. Which inequality can be used to find how many \$1.25 snack packs can be purchased for \$10.00?

- F. $1.25s \geq 10.00$
 - G. $1.25s \leq 10.00$
 - H. $\frac{s}{1.25} \geq 10.00$
 - J. $\frac{s}{1.25} \leq 10.00$
- .32 + .21x = 1.16*

7. The price of mailing a small package is \$0.32 for the first ounce and \$0.21 for each additional ounce. Sandra paid \$1.16 to mail her package. How much did it weigh?

- A. 4 ounces
- B. 5 ounces
- C. 6 ounces
- D. 7 ounces

8. A bench is being centered on a wall. The wall is 2.7 m long and the bench is 1.8 m wide. Which equation can be used to determine how much of the wall should be on each side of the bench?

- F. $2.7 - 1.8x = 2$
- G. $1.8x - 2 = 2.7$
- H. $2x - 1.8 = 2.7$
- J. $2.7 - 2x = 1.8$

9. Solve $5h + 15 - 3h = 32$.

- A. $h = 16$
- B. $h = 23\frac{1}{2}$
- C. $h = 8\frac{1}{2}$
- D. $h = 2\frac{1}{8}$

$$\begin{array}{r} 2h + 15 = 32 \\ -15 \quad -15 \\ \hline 2h = 17 \end{array}$$

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10. Solve $2(a - 5) - 5 = 3$.

- F. $a = 9$ H. $a = -9$
 G. $a = 12$ J. $a = -12$

11. Juan needs to take a taxi to get to the movies. The taxi charges \$3.50 for the first mile, and then \$2.75 for each mile after that. If the total charge is \$18.63, then how far was Juan's taxi ride to the movie?

- A. 6.5 miles C. 6.8 miles
 B. 5.3 miles D. 5.5 miles

12. Solve $6(s - 8) \leq -18$

- F. $s \leq -5$ H. $s \leq 5$
 G. $s \leq -\frac{5}{3}$ J. $s \leq -11$

13. Larry has \$389.00. A DVD player costs \$97.00, and he can purchase used movies for \$11.55 each. What is the greatest number of movies Larry can buy if he also buys a DVD player?

- A. at most 26 C. at most 25
 B. at most 34 D. at most 43

CONSTRUCTED RESPONSE

14. Henry is putting a new baseboard around his room. He used the formula $P = 2(\ell + w)$ to find the perimeter. The perimeter is $72\frac{1}{2}$ feet. He remembers that the width was $16\frac{1}{2}$ feet. Show two different ways to find the length of the other wall.

$72\frac{1}{2} = 2(\ell + 16\frac{1}{2})$
 $\ell = 19\frac{3}{4}$

15. A baseball stadium has 37,101 seats in the three areas listed in the table.

Type of Seat	Number of Seats
Lower Deck	10,238
Upper Deck	p
Box level	721

Suppose all the box level and lower deck seats during a game are filled. Write and solve an inequality to determine how many people could be sitting in the upper deck.

$55 + 1 + 65$

$10,238 + 721 + p \leq 37,101$

$p \leq 26,142$

between 0 & 26,142 people

16. Katia has one more than five times the number of wristbands that Shelly has. Rae has three more than twice the number that Shelly has. What expression would show how many more wristbands Katia has than Rae? Show your work.

K: $5S + 1$

R: $2S + 3$

$5S + 1 - (2S + 3) = 5S + 1 - 2S - 3 = 3S - 2$

17. Lacey has \$20 to spend on school supplies. Notebooks cost \$2.50, pens cost \$0.50 and pencils cost \$0.12. Lacey needs 7 notebooks for her classes and also wants to get 4 pens. How many pencils can she buy? Explain.

$2.50 \times 7 = 17.50$

$17.50 + 4(0.50) + p \leq 20$

$19.50 + p \leq 20$

$p \leq .50$

She can buy 0, 1, 2, 3, or 4 pencils or up to 4 pencils