

## Class Time

Use your time wisely to finish the last page of the Unit Test Review packet.

We will be correcting the packet at \_\_\_\_\_.

If you finish early, you can:

- complete extra practice worksheets
- re-do homework or Learning Check problems that you got wrong

# **Homework:**

**study and bring silent reading book  
and a calculator**

**(optional practice will be available on  
my website)**

## Preparing for a Test

Some things you can do to study for a test:

- finish any assignments that were incomplete or uncorrected
- re-do homework or Learning Check problems that you got wrong
- extra practice on Khan Academy
- review/make flashcards for difficult vocab words or important concepts

## **More Unit Test Review**

What do you want more practice with?

- 7.EE.1 (like terms and distributive property)
- 7.EE.2 (rewrite expressions for different info)
- 7.EE.3 (solve multi-step problems)
- 7.EE.4a (write and solve equations)
- 7.EE.4b (write and solve inequalities)

7.EE.1 (like terms and distributive property)

Use the Distributive Property to write ALL the possible expressions in factored form.

$$24x + 36$$



answer

Use the Distributive Property to write ALL the possible expressions in factored form.

$$24x + 36$$

$$2(12x + 18) \quad 3(8x + 12) \quad 4(6x + 9)$$

$$6(4x + 6) \quad 12(2x + 3)$$



back to standards



more like this

7.EE.1 (like terms and distributive property)

Simplify the following expression completely.

$$-8(9x - 5) + 5(-3 + 4x)$$



answer

Simplify the following expression completely.

$$-8(9x - 5) + 5(-3 + 4x)$$

$$-52x + 25$$



back to standards



more like this



7.EE.1 (like terms and distributive property)

Use the Distributive Property to write ALL the possible expressions in factored form.

$$80x + 40$$



answer

Use the Distributive Property to write ALL the possible expressions in factored form.

$$80x + 40$$

$$2(40x + 20) \quad 4(20x + 10) \quad 5(16x + 8)$$

$$8(10x + 5) \quad 40(2x + 1)$$



back to standards



more like this

7.EE.1 (like terms and distributive property)

Simplify the following expression completely.

$$-5(-7 + 2x) + 7(-8x - 2)$$



answer

**Simplify the following expression completely.**

$$-5(-7 + 2x) + 7(-8x - 2)$$

$$-66x + 21$$



back to standards

## 7.EE.2 (rewrite expressions for different info)

**You and your friends made up a basketball game. Every shot made from the free throw line is worth 3 points and every shot made from the half-court mark is worth 6 points. 4 friends were playing this game.**

Using the distributive property, write TWO equivalent expressions that represent the total points scored. Let  $f$  represent free throw shots and  $h$  represent half court shots. Explain how each expression describes the situation in a different way.



answer

**You and your friends made up a basketball game. Every shot made from the free throw line is worth 3 points and every shot made from the half-court mark is worth 6 points. 4 friends were playing this game.**

Using the distributive property, write TWO equivalent expressions that represent the total points scored. Let  $f$  represent free throw shots and  $h$  represent half court shots. Explain how each expression describes the situation in a different way.

$$4(3f + 6h)$$

Adds the number of 3-points shots to the number of 6-point shots, and is then multiplied by 4 people.

$$12f + 24h$$

Adds 12 points per 3-points shot for 4 people to 24 points per 6-point shot for 4 people.



back to standards



more like this

## 7.EE.2 (rewrite expressions for different info)

**Jake goes to Bob's Burgers to buy sodas and cheeseburgers for him and two friends. Sodas cost \$1.50 and cheeseburgers cost \$2.25?**

Using the distributive property, write TWO equivalent expressions that represent the total amount Jake spent for all 3 people. Explain how each expression describes the situation in a different way.



answer

**Jake goes to Bob's Burgers to buy sodas and cheeseburgers for him and two friends. Sodas cost \$1.50 and cheeseburgers cost \$2.25?**

Using the distributive property, write TWO equivalent expressions that represent the total amount Jake spent for all 3 people. Explain how each expression describes the situation in a different way.

$$3(1.50 + 2.25)$$

Adds the cost for 1 soda and 1 cheeseburger, and is then multiplied by 3 people.

$$4.50 + 6.75$$

Adds the cost for 3 sodas to the cost for 3 hamburgers.



back to standards



7.EE.3 (solve multi-step problems)

The length of a rectangle is twice the width. The perimeter of the rectangle is 30 feet. What is the area of the rectangle?



answer

The length of a rectangle is twice the width. The perimeter of the rectangle is 30 feet. What is the area of the rectangle?

The area of the rectangle is 50 ft<sup>2</sup>.



back to standards



more like this

7.EE.3 (solve multi-step problems)

**The total cost of four pens and seven mechanical pencils is \$13.25. The cost of each pencil is 75 cents. What is the cost of one pen?**



answer

**The total cost of four pens and seven mechanical pencils is \$13.25. The cost of each pencil is 75 cents. What is the cost of one pen?**

**One pen costs \$2.**



back to standards



more like this

7.EE.3 (solve multi-step problems)

**Jeff sold half of his baseball cards, then bought sixteen more. He now has 21 baseball cards. How many cards did he begin with?**



answer

**Jeff sold half of his baseball cards, then bought sixteen more. He now has 21 baseball cards. How many cards did he begin with?**

**Jeff began with 10 baseball cards.**



back to standards



more like this

7.EE.3 (solve multi-step problems)

**The sum of two consecutive even integers is 54. What are the two integers.**



answer

**The sum of two consecutive even integers is 54. What are the two integers.**

**26, 28**



back to standards



7.EE.4a (write and solve equations)

**Sophia pays a \$19.99 membership fee for an online music store. As a member, she can purchase songs for \$0.99 each. Sophia has saved \$118. How many songs can she buy?**

Write an equation in terms of the number of songs  $n$ . Solve to find the answer and show all steps.



answer

**Sophia pays a \$19.99 membership fee for an online music store. As a member, she can purchase songs for \$0.99 each. Sophia has saved \$118. How many songs can she buy?**

Write an equation in terms of the number of songs  $n$ . Solve to find the answer and show all steps.

$$0.99n + 19.99 = 118$$

$$n = 99$$

Sophia can buy 99 songs.



back to standards



more like this

### 7.EE.4a (write and solve equations)

**In winter, the price of apples went up by \$0.65 per pound. Mary bought 4 pounds of apples at the new price, for a total of \$6.40. What was the original price per pound?**

Write an equation in terms of the original price per pound  $p$ . Solve to find the answer and show all steps.



answer

In winter, the price of apples went up by \$0.65 per pound. Mary bought 4 pounds of apples at the new price, for a total of \$6.40. What was the original price per pound?

Write an equation in terms of the original price per pound  $p$ . Solve to find the answer and show all steps.

$$4(p + 0.65) = 6.40$$

$$p = 0.95$$

The apples originally cost \$0.95 per pound.



back to standards



more like this

### 7.EE.4a (write and solve equations)

**Caitlan went to the store to buy school clothes. She had a store credit from a previous return in the amount of \$39.58. She bought 4 of the same style shirt in different colors and spent a total of \$52.22 after the store credit was taken off her total. What was the price of each shirt she bought?**

Write an equation in terms of the price of one shirt  $p$ . Solve to find the answer and show all steps.



answer

**Caitlan went to the store to buy school clothes. She had a store credit from a previous return in the amount of \$39.58. She bought 4 of the same style shirt in different colors and spent a total of \$52.22 after the store credit was taken off her total. What was the price of each shirt she bought?**

Write an equation in terms of the price of one shirt  $p$ . Solve to find the answer and show all steps.

$$4p - 39.58 = 52.22$$

$$p = 22.95$$

Each shirt costs \$22.95.



back to standards

### 7.EE.4b (write and solve inequalities)

**Brenda has \$500 in her bank account. Every week, she withdraws \$40 for miscellaneous expenses. She wants to maintain a balance of more than \$200. How many weeks can she withdraw money?**

Write an inequality in terms of the number of weeks  $w$ . Solve to find the answer and show all steps. Explain your answer in words.



answer

**Brenda has \$500 in her bank account. Every week, she withdraws \$40 for miscellaneous expenses. She wants to maintain a balance of more than \$200. How many weeks can she withdraw money?**

Write an inequality in terms of the number of weeks  $w$ . Solve to find the answer and show all steps. Explain your answer in words.

$$500 - 40w > 200$$

$$w < 7.5$$

She can withdraw money for less than 7 weeks.



back to standards



more like this



### 7.EE.4b (write and solve inequalities)

**The cost of renting a car is \$25 per day plus a one-time fee of \$75.50 for insurance. You can spend no more than \$525 on the car rental. How many days can the car be rented?**

Write an inequality in terms of the number of days  $d$ . Solve to find the answer and show all steps. Explain your answer in words.



answer

The cost of renting a car is \$25 per day plus a one-time fee of \$75.50 for insurance. You can spend no more than \$525 on the car rental. How many days can the car be rented?

Write an inequality in terms of the number of days  $d$ . Solve to find the answer and show all steps. Explain your answer in words.

$$25d + 75.50 \leq 525$$

$$d \leq 17.98$$

You can rent the car for 17 or less days.



back to standards



more like this

### 7.EE.4b (write and solve inequalities)

**Sam needs \$29 to download some songs and movies on his iPod. His mother agrees to pay him \$6 an hour for raking leaves, in addition to his \$5 weekly allowance. How many hours must Sam work in one week to have enough money?**

Write an inequality in terms of the number of hours  $h$ . Solve to find the answer and show all steps. Explain your answer in words.



answer

**Sam needs \$29 to download some songs and movies on his iPod. His mother agrees to pay him \$6 an hour for raking leaves, in addition to his \$5 weekly allowance. How many hours must Sam work in one week to have enough money?**

Write an inequality in terms of the number of hours  $h$ . Solve to find the answer and show all steps. Explain your answer in words.

$$6h + 5 \geq 29$$

$$h \geq 4$$

**Sam needs to rake leaves for 4 hours or more.**



back to standards