Week of April 27- May 1, 2020
Mrs. Epperson

Hi!! My heart is truly missing you, I hope you are staying well! If you are able, please connect with us through our google classroom. We have weekly calls on Thursdays if you are able to join us. They are NOT required, but it's nice to catch up and see your faces. The times we meet on Thursdays are 6th grade: 12:45-1:15, 7th grade:1:15-1:45, and 8th grade: 1:45-2:15, you can find the link to connect with us in your student email (same email and password you use to log into chromebooks; remember, the ending of your email address is @oakland5.org)

You may use your math folder to help you. You have to complete 1 worksheet, but may complete all 3. I am available at nichole.epperson@oakland5.org or 708-517-0534 for any questions. You may call or text.

All worksheets have the appropriate grade level/subject at the top.

Class	Choice 1	Choice 2	Choice 3
6th grade math	5-2	5-6	5-7
7th grade math	3-1	3-5	3-6
8th grade Algebra	2-5	2-6	2-8

Choice 1

7th grade
Epperson

Name:

PRACTICE TUTORIAL

3-1 Additional Practice

Week of 4/27-5/1

Scan for Multimedia

Leveled Practice In 1–2, fill in the boxes to solve.

1. A school orchestra has 60 members. 20% of the members are percussionists. How many orchestra members are percussionists?

20% • 60 players

The number of percussionists is

[ ]% of 60

= [ ] • 60

= [ ] percussionists.

2. Of 800 cars that drove on a street during a week, 0.75% exceeded the 25 miles per hour speed limit by more than 10 miles per hour. How many cars drove over 35 miles per hour?

The number of cars driving over 35 miles per hour is

[ ]% of [ ]

= [ ] • 800

= [ ] drivers

3. An item sells for $40. The sales tax on the item is 8%. What is the sales tax and total cost?

4. When a bush was first planted in a garden, it was 12 inches tall. After two weeks, it was 120% as tall as when it was first planted. How tall was the bush after the two weeks?

5. The number of students in the marching band this year is 125% as many as the number of students in the marching band last year. If there were 36 students in the marching band last year, how many students are in the marching band this year?

6. Joel earns a commission of 5% on the audio equipment he sells, and the store keeps the rest. He sells a $750 amplifier.

a. How much commission does Joel earn from the sale?

b. How much does the store keep?

7. Nixon estimates it will take him 5 hours to finish an art project. It actually takes him 320% of the time estimated. How many hours did it take him to finish the project?

8. A contaminant is found in a solution at a level of $\frac{3}{500}$%. What fraction of the solution is this?

Choice1

7th grade math- Epperson, week of 4/27-5/1

9. A bike shop sells you a bicycle for $63 and a helmet for $21. The total cost is 150% of what the shop spent originally.

a. How much did the shop spend originally?

b. How much profit did the bike shop earn by selling the bicycle and helmet to you?

10. A newspaper reporter wrote an article about the amount of a toxin found in a river near a factory. In the article, the reporter incorrectly used 0.25 as the decimal form of $\frac{1}{4}$%.

a. What is the correct way to write $\frac{1}{4}$% as a decimal?

b. Reasoning What was the reporter's likely error?

11. Allie and Sam are ophthalmologists. Allie found that 40% of the 170 patients she saw in a week were near-sighted. Sam found that 25% of the 236 patients he saw in a week were near-sighted.

a. How many of the patients Allie saw were near-sighted?

b. How many of the patients Sam saw were near-sighted?

12. Higher Order Thinking Kevin's car can go 315 miles on one tank of gas. He used just under 40% of a full tank of gas to get to a sporting event, traveling at an average speed of 60 miles an hour. About how long did it take him to get there? How did you decide?

Assessment Practice

13. A large university accepts 70% of the students who apply. Of the students the university accepts, 25% actually enroll. If 20,000 students apply, how many actually enroll?

Ⓐ 14,000 students

Ⓑ 5,000 students

Ⓒ 3,500 students

Ⓓ 1,750 students

14. Krystine has a weekend job advertising an upcoming play. She has two options for being paid. Option A is an hourly wage of $7.00. Option B is a 5% commission on tickets sales. She plans to work 8 hours on both Saturday and Sunday. Tickets are sold for $10 each, and Krystine estimates she will sell about 200 tickets. Which option gives Krystine more earnings this weekend?

Ⓐ Both options give Krystine the same amount of earnings.

Ⓑ Option A gives Krystine more earnings this weekend.

Ⓒ Option B gives Krystine more earnings this weekend.

Choice 2

7th grade
Epperson

Name:

PRACTICE TUTORIAL

3-5 Additional Practice

Week of 4/27-5/1

Scan for Multimedia

Leveled Practice In 1–2, fill in the boxes to solve.

1. A computer store bought a program at a cost of $10 and sold it for $13. Find the percent markup.

markup = percent markup • cost

$[ ] = p • $[ ]$

selling price − cost = markup

$[ ] − $[ ] = $[ ]$

$\frac{[ ]}{10} = [ ] = [ ]\%$

The percent markup of the computer program is [ ]%.

2. A music store bought a CD set at a cost of $20. When the store sold the CD set, the percent markup was 40%. Find the selling price.

markup = percent markup • cost

[ ] = [ ]% • $[ ]

cost + markup = selling price

$[ ] + $[ ] = $[ ]$

The selling price of the CD is $[ ].

3. A store advertises a 20% markdown on a dishwasher that normally sells for $952.

a. Find the price on sale.

b. The markdown is the greatest possible without the store losing money. What does this tell you about the store's cost?

4. Kevin has $24 to buy a gift for his cousin. He found a gift for $22. With 5% sales tax added on, will Kevin have enough money to buy the gift? If so, how much will he pay?

5. Oliver saves 10% of his weekly earnings for living expenses. He usually makes $520 each week. This week he made 10% more. Oliver incorrectly claims that he has $520 left for spending money this week.

a. Calculate the amount of spending money Oliver has left for the week.

b. What error did Oliver likely make?

6. Brianna hoped to get 100 pumpkins from her garden this year. Since the weather was favorable, 20% more pumpkins grew than expected. Unfortunately, animals ate 30% of all the pumpkins that grew.

a. How many pumpkins were left?

b. Is the final number of pumpkins more or less than Brianna had hoped?

Choice 2

7. Gary wants to buy a video game with a selling price of $48, on sale for 50% off. The sales tax in his state is 4.5%.

a. How much will Gary have to pay in all?

b. If he has exactly $25, can he afford to purchase the game? Explain.

8. A department store buys 300 shirts for a total cost of $7,200 and sells them for $30 each. Find the percent markup.

9. Make Sense and Persevere A diamond ring that normally sells for $1,275 is on sale for $1,020. A ruby ring that normally sells for $290 is on sale for $203.

a. What is the percent markdown for the diamond ring?

b. What is the percent markdown for the ruby ring?

c. Compare the percent markdowns for the two rings.

10. Higher Order Thinking Victor paid $415 for a new kayak that he will sell in his shop. He wants to price the kayak so that he can offer a 25% markdown but still keep a markup of 15% of the price he paid for it. What should be the price of the kayak before markdown?

Assessment Practice

11. A store advertises a sale that all items are marked down 30% or more. A life jacket is marked down from $68 to a sale price of $44.20. Is the advertisement true? Explain why or why not.

12. Paul bought a concert ticket for $25. He sold the ticket at a 35% markup, but had to pay the venue a 5% resale fee on the selling price. How much money did he make from selling the ticket?

Choice 3

7th grade
Epperson

Name:

PRACTICE TUTORIAL

3-6 Additional Practice

Week of 4/27-5/1

Scan for Multimedia

Leveled Practice **Use the information to fill in the boxes and solve.**

1. Liu deposited $3,500 into a savings account. The simple interest rate is 4%.

a. How much interest will the account earn in 2 years?

Interest = interest rate • principal • time

Interest = ( ) • $( ) • ( )

Interest = $( )

The account will earn $( ) in 2 years.

b. How much interest will the account earn in 10 years?

Interest = interest rate • principal • time

Interest = ( ) • ( ) • ( )

Interest = $( )

The account will earn $( ) in 10 years.

2. Elsie's aunt borrows $400 with an interest rate of 1.5%. How much interest will she pay after 4 years?

3. Reasoning Suppose Houston deposits $600 into a savings account with a simple interest rate of 2.5%. He wants to keep his deposit in the bank long enough to earn at least $120 in interest. For how many years should Houston keep his deposit in the bank, assuming he does not withdraw or add to the account balance? Explain.

4. Critique Reasoning Gil borrows $8,000 for college expenses. He will pay a total of $10,280 after 6 years. Gil says the interest rate is at least 5%. Is he correct? Explain.

Choice 3

7th grade- Epperson, week of 4/27-5/1

5. If the principal, interest rate, or time in a simple interest problem is doubled, and the other two quantities remain constant, how does the simple interest amount change? Explain.

6. **Make Sense and Persevere** Give an example of two principal amounts and two periods of time for which the simple interest earned at 2.42% would be equal. Explain your answer.

7. **Higher Order Thinking** Theodore earned $92.40 in interest after 4 years on a principal of $550. Bella earned $216.00 in interest after 4 years on a principal of $1,500. Which bank would you rather use, Theodore's or Bella's? Explain.

Assessment Practice

8. A certificate of deposit with $600 principal earns 2.5% interest for 6 years.
Select all options that would earn the same amount of interest.

- ☐ $200 at 5% for 8 years
- ☐ $80 at 75% for 18 months
- ☐ $250 at 10% for 2 years
- ☐ $300 at 2% for 2 years
- ☐ $225 at 10% for 4 years

9. Aaron borrowed money to start a new business. The simple interest rate on the loan is 2.5%. He will pay back the loan by making a total of 12 payments of $266.50 each. How much did he borrow?