

Week of April 6-10, 2020

Mrs. Epperson

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 (Enrichment)
7th grade math	1-4	1-5	1-7

7th grade

Name: _____



PRACTICE



TUTORIAL

1-7 Additional Practice

Week of 4/6-4/10

Leveled Practice In 1-8, multiply.Scan for
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1. $-\frac{11}{14} \cdot \left(-\frac{1}{17}\right)$

2. $-2\frac{1}{2} \cdot \left(-1\frac{2}{3}\right)$

3. $-\frac{5}{12} \cdot \frac{5}{8}$

4. $\frac{2}{7} \cdot \left(-\frac{7}{9}\right)$

5. $-0.3 \cdot (-0.27)$

6. $-5.5 \cdot 0.021$

7. $-4\frac{1}{2} \cdot -3\frac{3}{4}$

8. $7.75 \cdot \left(-1\frac{2}{3}\right)$

9. Annalise withdraws \$22.50 each day from her account for a week.
How can you represent the change in the account for the week?

10. Kyle incorrectly says that the product of

$$-\left(-\frac{6}{7}\right) \cdot \left(-\frac{1}{11}\right) \text{ is } \frac{6}{77}.$$

- a. What is the correct product?
- b. What was Kyle's likely error?

11. After a recycling awareness program, the number of tons of recyclable material taken to the landfill is reduced by $13\frac{7}{10}$ tons per month. Represent the total change in the tons of recyclable material taken to the landfill after 7 months resulting from the awareness program. Show your work.

12. **Higher Order Thinking** Place these products in order from least to greatest.

$$5\frac{5}{7} \cdot 5\frac{5}{7}$$

$$4\frac{5}{7} \cdot \left(-6\frac{5}{7}\right)$$

$$-7\frac{1}{7} \cdot \left(-4\frac{4}{5}\right)$$



Assessment Practice

13. Town A has an elevation of -13 feet. Town B has an elevation 7 times lower. Write an equation that represents the elevation of Town B.

14. Select all the situations that could be represented by the expression $40 \cdot (-18)$.

- A hot air balloon descends 18 inches per a second for 40 seconds.
- A hot air balloon ascends 40 inches per a second for 18 seconds.
- Tray withdraws \$18 from his checking account once a week for 40 weeks.
- Suzanne deposits \$18 into her savings account once a week for 40 weeks.
- Morty withdraws \$40 from his checking account once a month for 18 months.

**1-5 Additional Practice**

Week of 4/6-4/10

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1. Find the sum of $\frac{2}{3} + \left(-\frac{1}{3}\right)$.

2. Is $-\frac{1}{3} - \frac{4}{5}$ positive, negative, or zero?

3. Find the value of the expression $(-8.6) + 7.2$.

4. Is $\frac{2}{5} - \left(-\frac{5}{6}\right)$ positive, negative, or zero?

5. Use the expression $-\frac{1}{3} - \left(-\frac{5}{12}\right)$.

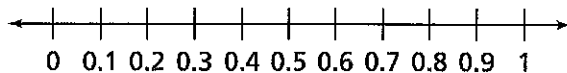
a. Which shows an equivalent addition expression?

Ⓐ $\frac{1}{3} + \frac{5}{12}$

Ⓑ $-\frac{1}{3} + \frac{5}{12}$

Ⓒ $\frac{1}{3} + \left(-\frac{5}{12}\right)$

Ⓓ $-\frac{1}{3} + \left(-\frac{5}{12}\right)$

b. **Model with Math** Draw the point on the number line that represents $-\frac{1}{3} - \left(-\frac{5}{12}\right)$.

c. Find the value of the expression $-\frac{1}{3} - \left(-\frac{5}{12}\right)$.

6. **Higher Order Thinking** Write an absolute value expression you could use to find the absolute value of $3.1 + (-6.3)$.
7. The temperature one morning was -4.7°F and rose to 11.6°F that night. Find the difference in the temperatures.
8. The bottom of a pylon is $3\frac{1}{2}$ yards below the ground. The top of the pylon is $2\frac{1}{2}$ yards above the ground. How tall is the pylon?
9. Manuel climbs a tower from ground level to an elevation of $135\frac{1}{2}$ feet. He then climbs down $27\frac{1}{4}$ feet. How far is Manuel from the ground?
10. When Sam simplified the expression $3.5 - (-4.1)$, she got -0.6 . What mistake did Sam likely make when she simplified the expression?



Assessment Practice

11. A researcher in a personal submarine begins at the surface of the ocean. The submarine descends 20.6 meters and then ascends $5\frac{7}{10}$ meters. What is the depth of the personal submarine?
- Ⓐ -26.3 meters Ⓑ -14.9 meters
Ⓒ 14.9 meters Ⓓ 26.3 meters
12. Carter hikes from the top of a hill that is $120\frac{2}{3}$ feet above sea level down into a valley that is $43\frac{2}{3}$ feet below sea level. What is the difference in elevation between the top of the hill and the valley?

Name: _____



PRACTICE



TUTORIAL

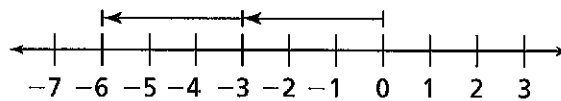
1-4 Additional Practice

Week of 4/6-4/10

Leveled Practice In 1-3, fill in the boxes.

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1. What subtraction expression does the number line model show?



2. Complete the statement.

$7 - (-4)$ is _____ units from 7 in the _____ direction.

3. What is the value of the expression

$$-8 - (-3)?$$

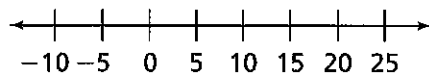
$$-8 - (-3)$$

$$= -8 + 3$$

$$=$$

4. Julia is hanging birdhouses on her fence. The first birdhouse is 21 inches to the right of a red fence post. The second birdhouse is 29 inches to the left of the first birdhouse.

- a. Use the number line below to represent this scenario. Let 0 on the number line represent the red fence post.



- b. What integer represents the location of the second birdhouse with respect to the red fence post? Write and evaluate an expression.

5. Hank is working in a silver mine 10 feet below the surface. He descends until he reaches a point 57 feet below the surface. How many feet does Hank descend?

6. Nora and Vera are trying to find the difference of $10 - (-3)$. Nora thinks the difference is 7. Vera claims the difference is 13. Who is correct? Explain.

7. An elevator starts at the main floor and goes up 8 floors. It then goes back down 5 floors. What integer represents the elevator's final position with respect to the main floor?

8. The highest temperature ever recorded in Chicago was 105°F , and the lowest was -27°F . Use absolute values to find the difference between the highest and the lowest temperatures.

9. Oliver is 8 feet above the surface of the water. There is a school of fish 10 feet below the surface. A ledge with some seashells is 18 feet below the surface, and even deeper there is a shipwreck 32 feet below the surface.

- How many feet will Oliver have to travel to get to the seashells?
- How much deeper is the shipwreck than the school of fish?

10. Find the difference.

$$63 - 93$$

11. Find the difference.

$$-156 - (-45)$$

12. Find the difference.

$$-4 - 5$$

13. **Generalize** What is true about the sign of the difference when a positive integer is subtracted from a negative integer?

14. **Higher Order Thinking** Stuart's best golf score is 4 under par, or -4 . He wants to beat this score by 3 strokes. With one hole remaining, Stuart is 5 under par, or -5 . What must his score be on the last hole to beat his best score? Explain your answer.



Assessment Practice

15. Melissa and Brian are at the base of a mountain. Melissa hikes to a location 27 meters above sea level. Brian hikes to a location 21 meters below sea level.

a. Write an integer to represent each hiker's location with respect to sea level.

b. Write an expression to represent the difference of the hikers' altitudes. Evaluate your expression.

c. Can the integers be subtracted in either order to find the difference? Explain.