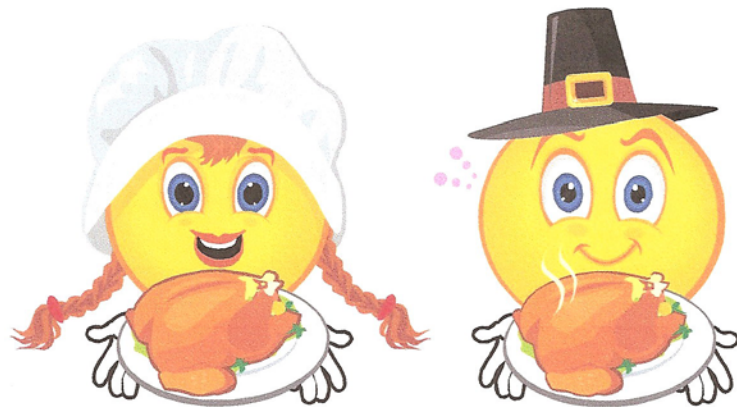


VALLEJO MIDDLE SCHOOL
THANKSGIVING
MATH
PRACTICE
PACKET



NAME: _____

GRADE: _____

TEACHER: _____

Adding and Subtracting Unlike Fractions

Example 2

Find $-3\frac{1}{2} - 1\frac{5}{6}$. Write in simplest form.

$$\begin{aligned} -3\frac{1}{2} - 1\frac{5}{6} &= -\frac{7}{2} - \frac{11}{6} \\ &= -\frac{7}{2} \cdot \frac{3}{3} - \frac{11}{6} \\ &= -\frac{21}{6} - \frac{11}{6} \\ &= \frac{-21 - 11}{6} \\ &= -\frac{32}{6} \text{ or } -\frac{16}{3} \text{ or } -5\frac{1}{3} \end{aligned}$$

Write the mixed numbers as improper fractions.

The LCD is $2 \cdot 3$ or 6.

Rename $\frac{7}{2}$ using the LCD.

Subtract the numerators.

Simplify.

Exercises

Add or subtract. Write in simplest form.

1. $\frac{2}{5} + \frac{3}{10}$

2. $\frac{1}{3} + \frac{2}{9}$

3. $\frac{5}{9} + \left(-\frac{1}{6}\right)$

7. $-\frac{7}{10} - \left(-\frac{1}{2}\right)$

8. $2\frac{1}{4} + 1\frac{3}{8}$

9. $3\frac{3}{4} - 1\frac{1}{3}$

11. $3\frac{2}{5} + 2\frac{1}{3}$

12. $5\frac{5}{7} + 3\frac{1}{2}$

13. $3\frac{1}{6} + 4\frac{1}{4}$

14. $1\frac{1}{2} + \left(-1\frac{1}{5}\right)$

15. $2\frac{3}{4} + \left(-6\frac{3}{8}\right)$

16. $5\frac{1}{4} + \left(-2\frac{2}{3}\right)$

Show Your Work:

Practice by Standard

Show Your Work:

1 $\frac{1}{4} + \frac{2}{3} =$

A $\frac{2}{7}$

B $\frac{3}{7}$

C $\frac{5}{6}$

D $\frac{11}{12}$

3 $\frac{3}{4} - \frac{1}{3} =$

A $\frac{1}{4}$

B $\frac{5}{12}$

C $\frac{1}{2}$

D $\frac{4}{7}$

8 $\frac{2}{3} - \frac{1}{8} =$

A $\frac{1}{5}$

B $\frac{3}{11}$

C $\frac{13}{24}$

D $\frac{19}{24}$

11 What would be the least common denominator used to add the following fractions?

$$\frac{1}{2} + \frac{2}{3} + \frac{5}{9}$$

F 6

G 9

H 14

J 18

12 $\frac{7}{8} - \frac{1}{3} =$

A $\frac{1}{4}$

B $\frac{13}{24}$

C $\frac{5}{6}$

D $\frac{11}{12}$

To express a fraction as a decimal, divide the numerator by the denominator.

Example 1

Write $\frac{3}{4}$ as a decimal.

$\frac{3}{4}$ means $3 \div 4$.

The fraction $\frac{3}{4}$ can be written as 0.75, since $3 \div 4 = 0.75$.

Write each fraction or mixed number as a decimal.

1. $\frac{1}{10}$

2. $\frac{1}{8}$

3. $-\frac{3}{4}$

4. $-\frac{4}{5}$

5. $\frac{21}{50}$

6. $-3\frac{9}{20}$

7. $4\frac{9}{25}$

8. $\frac{7}{9}$

Show Your work for #'s 1-8:

Write each fraction as a percent.

25. $\frac{9}{20}$

26. $\frac{2}{25}$

27. $\frac{5}{16}$

28. $\frac{33}{40}$

29. $\frac{3}{80}$

30. $\frac{13}{16}$

Show Your work for #'s 25-30:

Practice by Standard

Show Your Work:

1 Which of the following decimals is equivalent to $\frac{13}{5}$?

- A** 2.2
 - B** 2.4
 - C** 2.6
 - D** 2.8
-

5 Which of the following decimals is equivalent to $\frac{15}{4}$?

- A** 3.25
 - B** 3.75
 - C** 4.50
 - D** 4.75
-

6 Which of the following percents is equivalent to $\frac{1}{8}$?

- F** 12.5%
 - G** 18.0%
 - H** 70.0%
 - J** 87.5%
-

Percent of Change

To find the percent of change, first find the amount of change. Then find the ratio of that amount to the original amount, and write the ratio as a percent.

Example

Two months ago, the bicycle shop sold 50 bicycles. Last month, 55 bicycles were sold. Find the percent of change. State whether the percent of change is an *increase* or a *decrease*.

Step 1 Subtract to find the amount of change.

$$55 - 50 = 5$$

Step 2 Write a ratio that compares the amount of change to the original number of bicycles.

Step 3 Write the ratio as a percent.

$$\text{percent of change} = \frac{\text{amount of change}}{\text{original amount}}$$

Definition of percent of change

$$= \frac{5}{50}$$

The amount of change is 5. The original amount is 50.

$$= 0.1 \text{ or } 10\%$$

Divide. Write as a percent.

The percent of change is 10%. Since the new amount is greater than the original, it is a percent of increase.

Exercises

Find each percent of change. Round to the nearest tenth of a percent if necessary. State whether the percent of change is an increase or a decrease.

1. original: 4
new: 5

2. original: 10
new: 13

3. original: 15
new: 12

4. original: 30
new: 18

5. original: 60
new: 63

6. original: 160
new: 136

Show your work!

Find the sale price of each item to the nearest cent.

19. shoes: \$70, 10% off

20. artwork: \$250, 20% off

21. speakers: \$180, 30% off

22. bicycle: \$320, 25% off

23. antique chest: \$179, 15% off

24. pendant: \$93.50, 5% off

25. sofa: \$749.95, 35% off

26. oven: \$535.99, 20% off

Show your work for #19-26:

Simple Interest

Find the simple interest to the nearest cent.

1. \$500 at 4% for 2 years

2. \$800 at 9% for 4 years

3. \$350 at 6.2% for 3 years

4. \$280 at 5.5% for 4 years

5. \$740 at 3.25% for 2 years

6. \$1,150 at 7.6% for 5 years

Show your work for #1-6:

Practice by Standard

Show Your work

2 A book costs \$11.79, and David receives a 15% student discount. Which of the following expressions can be used to estimate the amount of David's discount?

- F $0.0015 \times \$12.00$
- G $0.015 \times \$12.00$
- H $0.15 \times \$12.00$
- J $1.5 \times \$12.00$

3 A new radio costs \$58.99. Michelle receives a 10% discount for being a mall employee. Which of the following expressions can be used to estimate the amount of the discount on the radio?

- A $0.01 \times \$59.00$
- B $0.10 \times \$59.00$
- C $1.0 \times \$59.00$
- D $1.1 \times \$59.00$

5 Sara deposits \$4000 into her bank account. The bank pays 4% interest annually. If she makes no deposits or withdrawals for one year, how much interest will she earn?

- A \$80
- B \$100
- C \$160
- D \$400

6 Mike receives an 8% commission on clothes he sells at his job. If he sold \$1280.00 worth of clothing, how much should he expect to earn in commission?

- F \$48.80
- G \$102.40
- H \$480.00
- J \$880.00