



Level 1: Adding and Subtracting Fractions Posttest Answer Key

Question 1:

A vet specializes in treating horses. The table shows the breeds he treats.

Breed	Fraction of Horses Treated
Kentucky Mountain Saddle Horses	$\frac{2}{3}$
Tennessee Walking Horses	$\frac{1}{4}$
Other Breeds	

What fraction of the horses are other breeds?

- a. $\frac{4}{7}$
- b. $\frac{11}{12}$
- c. $\frac{1}{12}$
- d. $\frac{13}{24}$

Question 2:

A builder needs more land for the shopping plaza he is building. The land around the plaza is farm land. One farmer will sell the builder $2\frac{3}{4}$ acres of land. Another farmer will sell $4\frac{1}{3}$ acres and a third farmer will sell $1\frac{1}{2}$ acres.

How many additional acres will the builder own if he buys all three pieces of land?

- a. $7\frac{7}{12}$ acres
- b. $7\frac{5}{9}$ acres
- c. $7\frac{38}{72}$ acres
- d. $8\frac{7}{12}$ acres

Continue ➡



Question 3:

To help students plan their time, the teacher estimates how long it will take to complete each homework assignment. Sam's math assignment is expected to take $\frac{1}{4}$ of an hour to complete. His language arts assignment is expected to take $\frac{1}{3}$ of an hour.

How long should Sam expect to spend on the two assignments?

- a. $\frac{1}{7}$ of an hour
- b. $\frac{2}{7}$ of an hour
- c. $\frac{7}{12}$ of an hour
- d. $\frac{7}{24}$ of an hour

Question 4:

The music teacher let the students vote on which type of music to study. The table shows the result of the vote

Music Genre	Fraction of the Class
Jazz	$\frac{1}{2}$
Classical	$\frac{1}{3}$
Opera	

If everyone in the class voted for one of the three types of music, what fraction of the class chose opera?

- a. $\frac{1}{6}$
- b. $\frac{7}{12}$
- c. $\frac{3}{5}$
- d. $\frac{5}{6}$

Continue ➡



Question 5:

Chad's job is to deliver fresh food to grocery stores as quickly as possible. By adding more trucks to his fleet, the trucks will make fewer stops and the deliveries will be faster. A truck makes 1, 2, or 3 stops.

If $\frac{1}{4}$ of the trucks make 3 stops and $\frac{1}{2}$ of the trucks make 2 stops, what fraction of the trucks make 1 stop?

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

b. $\frac{2}{3}$

c. $\frac{5}{8}$

d. $\frac{1}{4}$

Question 6:

The table shows the fraction of customers who buy different types of insurance from Safeguard Insurance Company.

Safeguard Insurance Policies Sold

Type of Insurance	Fraction of Customers
Home and auto	$\frac{2}{5}$
Home only	$\frac{1}{3}$

What fraction of Safeguard customers bought home insurance?

a. $\frac{1}{15}$

b. $\frac{3}{8}$

c. $\frac{11}{15}$

d. $\frac{11}{30}$

Continue ➡



Question 7:

To make a profit, the editor of a magazine must sell $\frac{1}{7}$ of the pages for full page advertisements and $\frac{3}{5}$ of the pages for half-page advertisements.

What fraction of pages will have advertisements if the editor is successful?

a. $\frac{26}{35}$

b. $\frac{16}{35}$

c. $\frac{13}{35}$

d. $\frac{1}{3}$

Question 8:

Based on the advice of his financial planner, John puts $\frac{2}{5}$ of his earnings in the bank to save for college. He also puts $\frac{1}{4}$ of his earnings in the bank to save for a new tablet.

What fraction of his earnings does John put in the bank?

a. $\frac{13}{40}$

b. $\frac{13}{20}$

c. $\frac{7}{20}$

d. $\frac{3}{9}$

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Question 9:

The table shows the rainfall in the Amazon rainforest during the first six months of the year.

Rainfall in the Amazon Rainforest

Month	Number of Inches of Rainfall
January	24
February	$19\frac{1}{2}$
March	$12\frac{3}{4}$
April	$10\frac{1}{2}$
May	$10\frac{1}{4}$
June	$6\frac{1}{2}$

In the last six months of the year, $51\frac{3}{4}$ inches of rain fell in the rainforest. The average yearly rainfall is 135 inches.

Was the total rainfall for the year more or less than the average rainfall and by how much?

- a. less than average by $\frac{1}{4}$ inches
- b. more than average by $\frac{1}{4}$ inches
- c. less than average by $1\frac{1}{3}$ inches
- d. more than average by $1\frac{1}{3}$ inches

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Question 10:

José used $\frac{2}{3}$ of a can of blue paint and $\frac{3}{4}$ of a can of yellow paint to make green paint.
How many cans of green paint did José make?

- a. $\frac{5}{7}$
- b. $\frac{6}{7}$
- c. $1\frac{1}{12}$
- d. $1\frac{5}{12}$

Question 11:

Sam used $\frac{2}{3}$ of a box of tiles for one project and $\frac{4}{5}$ of a box of tiles for another project.

How many boxes of tiles did Sam use for both projects?

- a. $\frac{2}{5}$
- b. $\frac{3}{4}$
- c. $1\frac{7}{15}$
- d. $1\frac{11}{15}$

Question 12:

Ava and Ben are babies who are two weeks old.

- Ava gained $\frac{1}{4}$ of a pound in the first week and $\frac{3}{8}$ of a pound in the second week.
- Ben gained $\frac{3}{4}$ of a pound in the two weeks combined.

a. How much weight did Ava gain in the two weeks?

of a pound

b. How much more weight did Ben gain than Ava in the two weeks?

of a pound

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Question 13:

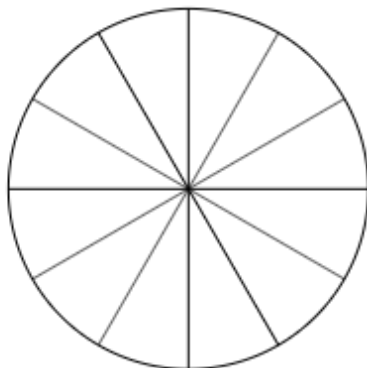
Erica, Pete, and Kim shared a bag of raisins. Erica ate $\frac{1}{3}$ of the raisins and Pete ate $\frac{1}{4}$ of the raisins. Altogether, the three friends ate $\frac{3}{4}$ of the raisins.

What fraction of all the raisins did Kim eat?

Kim ate $\frac{1}{6}$ of the whole bag of raisins.

Question 14:

You may use this circle to help you answer the question.



Latoya spent $\frac{1}{3}$ of the day sleeping and $\frac{5}{12}$ of the day working.

How much of the whole day did Latoya spend sleeping and working?

a. $\frac{1}{4}$

b. $\frac{2}{5}$

c. $\frac{2}{3}$

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

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Question 15:

A square tile is $\frac{7}{8}$ inch wide. James must cut $\frac{1}{16}$ inch from one side of the tile to make it fit against the edge of his floor. How wide will the tile be after James trims it?

- a. $\frac{3}{8}$ of an inch
- ☒ b. $\frac{13}{16}$ of an inch
- c. $\frac{6}{8}$ of an inch
- d. $\frac{15}{16}$ of an inch

Question 16:

Carlos poured $\frac{2}{3}$ cup of juice into a glass. He drank some of the juice. There was $\frac{1}{4}$ cup of juice left in the glass. Which is the best estimate of how much juice Carlos drank?

- a. $\frac{1}{4}$ cup
- ☒ b. $\frac{1}{2}$ cup
- c. $\frac{2}{3}$ cup
- d. $\frac{3}{4}$ cup

Question 17:

Jenny and Devon each ordered a small pizza. Jenny ate $\frac{2}{5}$ of her pizza. Devon ate $\frac{3}{4}$ of his pizza.

What fraction of a pizza did Devon eat more than Jenny?

- a. $\frac{1}{10}$
- b. $\frac{2}{10}$
- c. $\frac{1}{20}$
- ☒ d. $\frac{7}{20}$



Question 18:

Shawn needs about 1 yard of fabric for a craft project. He has $\frac{1}{2}$ yard.

Which amount of fabric will make Shawn's total amount closest to 1 yard?

a. $\frac{1}{4}$ yard

b. $\frac{3}{8}$ yard

c. $\frac{3}{4}$ yard

d. $\frac{7}{8}$ yard

Question 19:

This chart shows the lengths of two bats.

Bat Lengths

Bat	Length (in inches)
Bumblebee	$1\frac{1}{2}$
Little brown	$3\frac{1}{4}$

How many inches longer is the little brown bat than the bumblebee bat?

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

b. $1\frac{3}{4}$

c. $2\frac{2}{3}$

d. $5\frac{1}{4}$