

Name .....

**Directions:** Show your work for each question

1. Simplify.  $-\frac{3}{4} - \left(-\frac{5}{8}\right)$

*Show your work*

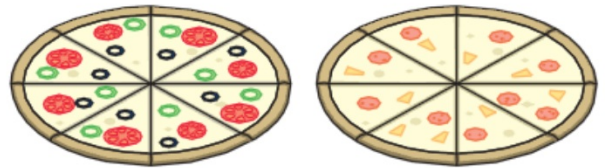
**Answer** \_\_\_\_\_

2. Calculate.  $\frac{1}{3}\left(\frac{2}{5} - \frac{1}{2}\right) + \frac{3}{10}$

*Show your work*

**Answer** \_\_\_\_\_

3. Li and Ray shared a vegetarian pizza and a Hawaiian pizza of the same size. The vegetarian pizza was cut into eight equal slices. The Hawaiian pizza was cut into six equal slices. Li ate two slices of the vegetarian pizza and one slice of the Hawaiian pizza. Ray ate two slices of the Hawaiian pizza and one slice of the vegetarian pizza.



- a) Who ate more pizza?
- b) How much more did that person eat?
- c) How much pizza was left over?

*Show your work*

a \_\_\_\_\_

b \_\_\_\_\_

c \_\_\_\_\_

4. In the table, a positive number shows how many hours the time in a location is ahead of the time in London, England. A negative number shows how many hours the time is behind the time in London.

Location	Time Zone
Alice Springs, Australia	$+9\frac{1}{2}$
Brandon, Manitoba	-6
Chatham Islands, New Zealand	$+12\frac{3}{4}$
Istanbul, Turkey	+2
Kathmandu, Nepal	$+5\frac{3}{4}$
London, England	0
Mumbai, India	$+5\frac{1}{2}$
St. John's, Newfoundland and Labrador	$-3\frac{1}{2}$
Tokyo, Japan	+9
Victoria, British Columbia	-8

- a) How many hours is the time in Mumbai ahead of the time in Brandon?

*Show your work*

\_\_\_\_\_

- b) How many hours is the time in Victoria behind the time in Mumbai?

*Show your work*

\_\_\_\_\_

5. Nadir collected an average of 45.36 kilograms of paper from each of 20 people in his neighborhood.

If Nadir's goal is to collect 1,000 kilograms of paper, how many more kilograms of paper does he need to collect?

*Show your work*

**Answer** \_\_\_\_\_ kilograms