

## Chapter 5 – Fraction Review of Grade 7

1. Show work and evaluate

a)  $\frac{3}{4} + \frac{1}{6}$

b)  $\frac{1}{2} + \frac{3}{10}$

c)  $\frac{1}{2} + \frac{3}{4}$

2. Kelly exercised on Monday and Tuesday.

She recorded the amount of time she spent on each activity as a fraction of one hour.

a) Calculate how much time Kelly spent on each activity over the two days.

Record each answer as a fraction of one hour.

b) How many minutes did she spend on each activity?

c) How much time did she spend exercising over the two days?

Write your answer in 2 different ways.

Activity	Monday	Tuesday
Walking	$\frac{1}{4}$ h	$\frac{1}{6}$ h
Running	$\frac{1}{3}$ h	$\frac{1}{2}$ h
Stretching	$\frac{1}{12}$ h	$\frac{1}{6}$ h

3. Buffy and Molly are making punch.

They add  $\frac{5}{8}$  cup of water,  $\frac{3}{4}$  cup of ginger ale,  $\frac{7}{8}$  cup of cranberry juice, and  $\frac{1}{4}$  cup of orange juice to a large punch bowl.

They want to pour the punch into a jug.

Should they use a jug that hold 2 cups of liquid or a jug that hold 3 cups of liquid?

How do you know?

4. Add. (Show work)

a)  $\frac{1}{4} + \frac{3}{5}$

b)  $\frac{5}{8} + \frac{1}{3}$

c)  $\frac{2}{5} + \frac{1}{8}$

d)  $\frac{3}{10} + \frac{1}{3}$

e)  $\frac{3}{5} + \frac{1}{10}$

f)  $\frac{3}{10} + \frac{1}{2}$

f)  $\frac{6}{8} + \frac{3}{4}$

g)  $\frac{3}{8} + \frac{5}{2}$

h)  $\frac{1}{4} + \frac{3}{10}$

i)  $\frac{5}{6} + \frac{7}{8}$

j)  $\frac{4}{3} + \frac{1}{6}$

k)  $\frac{7}{2} + \frac{3}{8}$

5. These are fractions of the students in a class who chose their favourite sport.

Baseball	Basketball	Hockey	Snowboarding	Swimming	Tennis
$\frac{1}{4}$	$\frac{1}{9}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{1}{18}$	$\frac{1}{12}$

Calculate the total fraction of the class that chose:

- a) sports played with a ball
- b) sports played on a court
- c) winter sports
- d) sports that use a net

6. Subtract (Show work)

a)  $\frac{7}{6} - \frac{2}{3}$       b)  $\frac{9}{8} - \frac{3}{4}$       c)  $\frac{13}{10} - \frac{4}{5}$       d)  $\frac{15}{8} - \frac{3}{2}$

e)  $\frac{7}{8} - \frac{2}{3}$       f)  $\frac{6}{5} - \frac{1}{3}$       g)  $\frac{5}{4} - \frac{1}{3}$       h)  $\frac{3}{5} - \frac{1}{4}$

7. Glenn has  $\frac{5}{8}$  of a cup of walnuts.

He needs  $\frac{2}{3}$  of a cup of walnuts to make a loaf of banana bread.

Does Glenn have enough?

If your answer is yes, explain why it is enough.

If your answer is no, how much more does Glenn need?

8. a)  $6\frac{2}{3} + 1\frac{1}{5}$       b)  $2\frac{3}{4} + 5\frac{1}{8}$       c)  $1\frac{4}{7} + 8\frac{1}{2}$       d)  $3\frac{3}{5} + 3\frac{1}{4}$   
e)  $7\frac{1}{2} - 3\frac{1}{4}$       f)  $12\frac{3}{4} - 6\frac{3}{8}$       g)  $4\frac{11}{16} - 2\frac{3}{8}$       h)  $4\frac{2}{3} - 1\frac{1}{2}$   
i)  $8 - \frac{7}{8}$       j)  $9 - \frac{2}{5}$       k)  $7 - \frac{5}{9}$       l)  $4 - \frac{1}{6}$

9) Percent of a number

- a) 75% of 164      b) 12% of 170      c) 15% of 260      d) 30% of 80