Final Exam Unit 5 Review

1. Use pattern blocks or fraction circles to show each
a) $\frac{5}{5}+\frac{1}{3}$
b) $\frac{1}{2}+\frac{1}{6}$
c) $\frac{7}{6}-\frac{2}{3}$
d) $\frac{9}{8}-\frac{3}{4}$

Solutions:
a) $\frac{5}{6}+\frac{1}{3}$


OR


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?
$\frac{5}{8}+\frac{3^{* 2}}{4 \times 2}+\frac{7}{8}+\frac{1^{x 2}}{4 \times 2}$ They should use the $\frac{5}{8}+\frac{3}{4 \times 2}+\frac{7}{8}+\frac{1}{4 \times 2} \quad 3$ cup jug so that
$=\frac{5}{8}+\frac{6}{8}+\frac{7}{8}+\frac{2}{8} \quad$ none will spill.
$=\frac{20}{8}=2 \frac{4}{8}=2 \frac{1}{2}$ cups.


$\left.=\frac{7}{8}+\frac{6}{8} \quad \cdot \frac{25}{30}+\frac{18}{30} \quad \right\rvert\, \frac{150}{240}>1 \frac{104}{240}$
$=\frac{13}{8}=1 \frac{5}{8} \quad=\frac{43}{30}=1 \frac{13}{30}$ So $\frac{7}{8}+\frac{3}{4}>\frac{5}{6}+\frac{3}{5}$.

 muctopase does Gabirineed? $\frac{8}{8}<3$

$$
\frac{15}{24}<\frac{16}{24} \text { Glenn does not have }
$$


8. Two-fifths of the students in a class voted for a trip to the zoo. One-third voted for a trip to the museum.
a) Which trip had more votes?
a) $\frac{2}{5} \frac{1}{3}$

$$
\frac{6}{15}>\frac{5}{15}
$$

Trip to the zoo had more votes.
b) What is the difference of the fractions?
c) What fraction of the class did not vote?
b) $\frac{6}{15}-\frac{5}{15}$
c) $\frac{6}{15}+\frac{5}{15}$
$=\frac{1}{15}$
$=\frac{11}{15}$ voted, so
$1-\frac{11}{15}=\frac{4}{15}$ did not vote.
9. Write as an improper fraction in simplest form.
a) $2 \frac{4}{9}=\frac{22}{9}$
a) $2 \frac{4}{9}$
b) $5 \frac{5}{8}$

$$
9 \times 2+4
$$

$$
=18+4
$$

$$
\begin{aligned}
& \text { b) } 5 \\
& 8 \times 5+5 \\
& =40+5 \\
& =45
\end{aligned}
$$

10. Write as a mixed number in simplest form.
a) $\frac{19}{9}$
b) $\frac{23}{8}$
a) $\frac{19}{9}=2 \frac{1}{9}$

$$
\text { b) } \frac{23}{8}
$$

$$
=2 \frac{7}{8}
$$

$$
19 \div 9=2
$$

$$
23 \div 8=2
$$

with I remainder with 7 remainder
11. Margie $\operatorname{ran} 2 \frac{3}{4} \mathrm{~km}$ on Monday, $3 \frac{3}{8} \mathrm{~km}$ on Wednesday, and $2 \frac{1}{2} \mathrm{~km}$ on Friday.
a) How many kilometres did Margie run altogether?
b) Margie tries to run 10 km each week.

$$
\begin{aligned}
& 2 \frac{3}{4}+3 \frac{3}{8}+2 \frac{1}{2} \\
\text { a } & 2 \frac{6}{8}+3 \frac{3}{8}+2 \frac{4}{8} \\
= & 2 \frac{6}{8}-8 \frac{50}{8}-\frac{69}{8} \\
= & 7 \frac{13}{8}=8 \frac{5}{8} \mathrm{~km} .
\end{aligned}
$$

12. Write an addition statement for each model.


$$
\frac{4}{3}+\frac{1}{3}=\frac{5}{3}
$$

$$
\frac{3}{8}+\frac{3}{4}=1 \frac{1}{8}
$$

