

# 4.1 - 4.5 Quiz Review Study Guide

State which decimal or fraction is greater.

1. 0.2, 0.025

1. 0.2

2. -0.17, -0.29

2. -0.17

3.  $5\frac{17}{30}$ ,  $5\frac{4}{9}$

3.  $5\frac{17}{30}$

4. There were 6 girls and 18 boys in Mrs. Johnson's math class. Write the number of girls as a fraction of the number of boys. Then write the fraction as a decimal.

4.  $\frac{6}{18} = \frac{1}{3} = 0.\overline{3}$

5. Ms. Rockwell surveyed her core 1 class and found that 12 out of the 30 students chose peaches as their favorite fruit and in her core 2 class 14 out of 32 chose strawberries as their favorite fruit. Write both as fractions or decimals. Which is greater?

5.  $\frac{14}{32}$  core 2

$\frac{12}{30} = \frac{2}{5} = 0.4$     $\frac{14}{32} = \frac{7}{16} = 0.4375$

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

6.  $6\frac{5}{6}$

6.  $6.8\overline{3}$

7.  $-\frac{2}{9}$

7.  $-0.\overline{2}$

Replace each  $\otimes$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

8.  $\frac{14}{20} \otimes \frac{3}{5}$  <sup>60</sup>

8.  $>$

9.  $\frac{122}{15} \otimes \frac{1}{6}$  <sup>15</sup>

9.  $>$

Order least to greatest.

10. {6.49,  $6\frac{4}{9}$ , 6.4%}   
  $0.064$    
  $6.4$    
  $6.49$

10.  $6.4\%$ ,  $6\frac{4}{9}$ ,  $6.49$

Solve the following.

11. Mario made six batches of cookies. His friends asked him to make an extra batch. He used  $\frac{3}{4}$  cups of sugar and needs another  $\frac{5}{8}$  cups for the extra batch. How many cups of sugar will Mario use altogether?

11.  $1\frac{3}{8}$

$\frac{3}{4} + \frac{5}{8} = \frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$

12.  $\frac{7}{9} - \frac{2}{3}$

12.  $\frac{1}{9}$

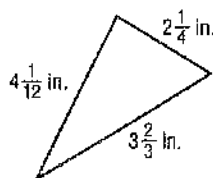
13.  $\frac{2}{3} - \frac{3}{4}$

13.  $-\frac{1}{12}$

14.  $\frac{7}{8} - \frac{3}{8}$

14.  $\frac{4}{8} = \frac{1}{2}$

15. Find the perimeter of the figure.



$$\begin{array}{r} 2\frac{1}{4} \quad \frac{3}{12} \\ 4\frac{1}{12} \quad \frac{1}{12} \\ 3\frac{2}{3} \quad \frac{8}{12} \\ \hline 9\frac{12}{12} \end{array}$$

15.  $10 \text{ in}$

16. Chad bought a box of raisins. He gave  $\frac{1}{6}$  of it to one brother,  $\frac{1}{4}$  to another brother, and he kept the rest for himself. What fraction did he keep?

$$1 - \frac{1}{6} - \frac{1}{4} = \frac{5}{6} - \frac{1}{4} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$$

16.  $\frac{7}{12} \text{ box}$

17. **HOMEWORK** Honon spent  $3 \frac{1}{4}$  hours on homework yesterday while Sequoia spent  $2 \frac{5}{6}$  hours on homework. How much more time did Honon spend on homework than Sequoia?

$$\begin{array}{r} 2\cancel{3}\frac{1}{4} \quad \frac{3}{12} \quad \frac{15}{12} \\ 2\frac{5}{6} \quad \frac{10}{12} \quad \frac{10}{12} \\ \hline \frac{5}{12} \end{array}$$

17.  $\frac{5}{12} \text{ hrs.}$

18.  $2\frac{3}{4} - 1\frac{1}{4}$

$$\begin{array}{r} 2\frac{3}{4} \\ -1\frac{1}{4} \\ \hline 1\frac{2}{4} \end{array}$$

18.  $1\frac{1}{2}$

19.  $5\frac{1}{2} - 3\frac{1}{4}$

$$\begin{array}{r} 5\frac{1}{2} \quad \frac{2}{4} \\ -3\frac{1}{4} \\ \hline 2\frac{1}{4} \end{array}$$

19.  $2\frac{1}{4}$

20.  $7 - 6\frac{4}{9}$

$$\begin{array}{r} 6\frac{5}{9} \\ -6\frac{4}{9} \\ \hline \frac{1}{9} \end{array}$$

20.  $\frac{1}{9}$