

signature

Mini 8

Test 40 questions
review - handouts
key

NAME: _____ BLOCK: _____ DATE: _____

FRACTION - PRETEST

<p>1. Write an equivalent fraction to $\frac{1}{3}$.</p> <p>$\frac{2}{6}, \frac{3}{9}, \frac{4}{12}, \dots$</p>	<p>2. Write an equivalent fraction to $\frac{4}{5}$.</p> <p>$\frac{8}{10}, \frac{12}{15}, \dots$</p>
<p>3. Write in lowest terms. $\frac{14}{21}$</p> <p>$\frac{2}{3}$</p>	<p>4. Write in lowest terms. $\frac{6}{15}$</p> <p>$\frac{2}{5}$</p>
<p>5. Change to improper form. $5\frac{1}{6}$</p> <p>$\frac{31}{6}$</p>	<p>6. Change to improper form. $3\frac{7}{12}$</p> <p>$\frac{43}{12}$</p>
<p>7. Change to a mixed number. $\frac{7}{3}$</p> <p>$2\frac{1}{3}$</p>	<p>8. Change to a mixed number. $\frac{43}{10}$</p> <p>$4\frac{3}{10}$</p>
<p>9. $\frac{3}{5} + \frac{4}{5}$</p> <p>$\frac{7}{5}$ or $1\frac{2}{5}$</p>	<p>10. $\frac{7}{10} - \frac{3}{10}$</p> <p>$\frac{4}{10} = \frac{2}{5}$</p>
<p>11. $3\frac{1}{8} + 1\frac{3}{8}$</p> <p>$4\frac{4}{8} = 4\frac{1}{2}$</p>	<p>12. $5\frac{3}{7} - 4\frac{2}{7}$</p> <p>$\frac{8}{7} = 1\frac{1}{7}$</p>
<p>13. $\frac{3}{5} + \frac{5}{9}$</p> <p>$\frac{27}{45} + \frac{25}{45} = \frac{52}{45}$ or $1\frac{7}{45}$</p>	<p>14. $\frac{3}{4} - \frac{1}{7}$</p> <p>$\frac{21}{28} - \frac{4}{28} = \frac{17}{28}$</p>

15.

$$2\frac{3}{5} + 5\frac{4}{9}$$

$$2\frac{27}{45} + 5\frac{20}{45}$$

$$7\frac{47}{45} = 8\frac{2}{45}$$

16.

$$4\frac{1}{7} - 2\frac{3}{4}$$

$$4\frac{4}{28} - 2\frac{21}{28}$$

$$3\frac{32}{28} - 2\frac{21}{28} = 1\frac{11}{28}$$

17.

$$3\frac{1}{5} - 2\frac{2}{3}$$

$$3\frac{3}{15} - 2\frac{10}{15}$$

$$2\frac{18}{15} - 2\frac{10}{15} = \frac{8}{15}$$

18.

$$5\frac{3}{4} + 2\frac{5}{16}$$

$$5\frac{12}{16} + 2\frac{5}{16}$$

$$7\frac{17}{16} = 8\frac{1}{16}$$

19. If Sandip buys three fifths of a package of toffee, Aman buys $2\frac{1}{2}$ packages of licorice and Indpreet $\frac{1}{3}$ of a package of mints, how many packages are they buying?

$$\frac{3}{5} + 2\frac{1}{2} + \frac{1}{3}$$

$$\frac{18}{30} + 2\frac{15}{30} + \frac{10}{30} = 2\frac{43}{30}$$

$$= 3\frac{13}{30}$$

20. Seven ninths of a cake was eaten. Arlene ate $\frac{1}{9}$ of the cake. How much of the cake was eaten by others?

$$\frac{7}{9} - \frac{1}{9} = \frac{6}{9} = \frac{2}{3}$$

21.

$$\frac{3}{5} \times \frac{7}{5}$$

$$= \frac{21}{25}$$

22.

$$4\frac{3}{5} \times 7\frac{1}{3}$$

$$\frac{23}{5} \times \frac{22}{3} = \frac{506}{15} = 33\frac{11}{15}$$

23.

$$\frac{3}{5} + \frac{7}{5}$$

$$\frac{3}{5} \times \frac{5}{7} = \frac{3}{7}$$

24.

$$\frac{2}{3} + 7\frac{2}{5}$$

$$\frac{2}{3} \times \frac{5}{37} = \frac{10}{111}$$

25. $2\frac{3}{4} + 1\frac{1}{8}$

$$\frac{11}{4} \times \frac{8^2}{9} = \frac{22}{9} \text{ or } 2\frac{4}{9}$$

26. $3\frac{5}{8} \times 1\frac{1}{2}$

$$\frac{29}{8} \times \frac{3}{2} = \frac{87}{16} = 5\frac{7}{16}$$

27. $\frac{2}{7} + \frac{5}{6} + \frac{1}{21}$

$$\frac{12}{42} + \frac{35}{42} + \frac{2}{42} = \frac{49}{42} \text{ or } 1\frac{7}{42}$$

$$= \frac{7}{6} \text{ or } 1\frac{1}{6}$$

28.

$$\frac{13}{8} \times \frac{25}{21} \times \frac{8}{4}$$

$$\frac{5}{12}$$

29. $\frac{3}{5} + \frac{2}{7} \times \frac{1}{3}$

$$\frac{3}{5} + \frac{2}{21}$$

$$\frac{63}{105} + \frac{10}{105} = \frac{73}{105}$$

30. If it takes $2\frac{5}{6}$ hours to make one orbit around the moon, how long would it take to make 9 orbits?

$$2\frac{5}{6} \times 9$$

$$\frac{17}{6} \times 9 = \frac{51}{2} \text{ or } 25\frac{1}{2} \text{ h.}$$