

Name _____



Date _____

Fractions

Fill in the missing number.

1. $\frac{4}{8} = \frac{\square}{72}$	2. $\frac{16}{9} = \frac{160}{\square}$	3. $\frac{91}{\square} = \frac{13}{15}$
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Write each fraction in simplest form.

4. $\frac{16}{88}$	5. $\frac{7}{28}$	6. $\frac{40}{45}$	7. $\frac{20}{40}$
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Compare. Write $<$, $>$, or $=$.

8. $\frac{24}{25}$ $\frac{727}{23}$	9. $\frac{5}{23}$ $\frac{556}{25}$	10. $\frac{4}{12}$ $\frac{5}{8}$
11. $\frac{1}{15}$ $\frac{4}{11}$	12. $\frac{6}{9}$ $\frac{4}{6}$	13. $\frac{1}{21}$ $\frac{11}{15}$

Complete.

14. The teacher wrote the following on the board. Is this statement correct? Explain why you think it is or is not correct. $\frac{6}{11} + \frac{11}{14} = \frac{17}{25}$	15. The set $\{1/4, 2/8, 3/12, 4/16, \dots\}$ represents a "fraction family." Based on this set, explain what a fraction family is.
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Order the fractions from least to greatest.

16. $\frac{3}{7}$, $\frac{10}{13}$, $\frac{11}{19}$	17. $\frac{4}{6}$, $\frac{11}{15}$, $\frac{2}{4}$	18. $\frac{7}{18}$, $\frac{2}{3}$, $\frac{1}{2}$
19. $\frac{5}{10}$, $\frac{6}{9}$, $\frac{15}{17}$	20. $\frac{1}{8}$, $\frac{3}{5}$, $\frac{7}{12}$	21. $\frac{6}{16}$, $\frac{8}{11}$, $\frac{12}{14}$

Write each improper fraction as a mixed number in simplest form.

22. $\frac{52}{17}$	23. $\frac{23}{5}$	24. $\frac{24}{11}$	25. $\frac{53}{8}$
26. $\frac{22}{4}$	27. $\frac{16}{12}$	28. $\frac{11}{3}$	29. $\frac{16}{9}$

Write each mixed number as an improper fraction in simplest form.

30. $2\frac{3}{7}$	31. $4\frac{11}{19}$	32. $6\frac{8}{13}$	33. $1\frac{1}{3}$
34. $5\frac{10}{18}$	35. $3\frac{4}{12}$	36. $6\frac{3}{11}$	37. $1\frac{7}{15}$

Fill in the missing number.

38. $\frac{13}{\square} = 6\frac{1}{2}$	39. $\frac{8}{3} = 2\frac{\square}{3}$
40. $\frac{6}{5} = 1\frac{1}{\square}$	41. $\frac{13}{3} = \square\frac{1}{3}$

Add or subtract. Write the answer in simplest form.

42. $\frac{9}{10} - \frac{7}{10}$	43. $\frac{22}{24} - \frac{18}{24}$	44. $\frac{3}{4} + \frac{3}{4}$
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Multiply. Write the answer in simplest form.

45. $2 \cdot \frac{7}{10}$	46. $19 \cdot \frac{6}{8}$	47. $15 \cdot \frac{1}{2}$
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Multiply. Write the answer in simplest form.

48. $\frac{6}{8} \cdot \frac{2}{11}$	49. $\frac{5}{6} \cdot \frac{1}{3}$	50. $\frac{9}{13} \cdot \frac{5}{17}$
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Divide. Write the answer in simplest form.

51. $\frac{6}{7} \div \frac{7}{16}$	52. $\frac{3}{4} \div \frac{2}{8}$	53. $\frac{8}{10} \div \frac{14}{19}$
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Divide. Write the answer in simplest form.

54. $8\frac{4}{8} \div 6\frac{3}{4}$

55. $5 \div \frac{6}{18}$

56. $\frac{1}{3} \div 2$

Add or subtract. Write the answer in simplest form.

57. $12 - \frac{4}{13}$

58. $20 - \frac{6}{19}$

59. $2 + \frac{2}{14}$

Add or subtract. Write the answer in simplest form.

60. $\frac{1}{3} + \frac{14}{18}$

61. $\frac{2}{6} + \frac{1}{2}$

62. $\frac{3}{4} - \frac{6}{9}$

Add or subtract. Write the answer in simplest form.

63. $11\frac{4}{6} - 8\frac{2}{5}$

64. $3\frac{2}{3} - \frac{7}{8}$

65. $10\frac{9}{14} + \frac{8}{10}$

Solve. Write the answer in simplest form.

66. $x + \frac{1}{5} = \frac{27}{85}$

67. $u - 2\frac{9}{16} = 8\frac{41}{48}$

Solve. Write the answer in simplest form.

68. $\frac{8}{11} \div c = \frac{64}{55}$

69. $\frac{1v}{3} = \frac{8}{27}$

Complete.

70. Chef Kyle was very particular about the ingredients he used in his pizzas. He even ordered the mozzarella directly from Italy. His favorite mozzarella was Mozzarella di Bufala, made in Campania. It costs \$9.99 per pound. He used one-fifth of a pound of this very special mozzarella on each pizza. If Chef Kyle made forty-six pizzas with the Mozzarella di Bufala, how much would that amount of cheese cost?

71. Jennifer's recipe for apple fritters makes twenty fritters and uses half of a cup of milk. Jennifer wants to make five fritters. How much milk will she need?

Complete.

72. Give values for a , b , c , and d to create your own division problem.

$$\frac{a}{b} \div \frac{c}{d} = \frac{d}{10}$$

73. An algorithm is a known series of steps that is used to solve a mathematical problem (or any other kind of problem for that matter). Write a step-by-step procedure (an algorithm) for multiplying two fractions.