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Next

Name : _____ Score : _____
 Teacher : _____ Date : _____

Multiplying Fractions with Cross Canceling

- 1) $\frac{3}{5} \times \frac{2}{10} =$
- 2) $\frac{1}{3} \times \frac{1}{2} =$
- 3) $\frac{1}{3} \times \frac{1}{5} =$
- 4) $\frac{1}{2} \times \frac{1}{5} =$
- 5) $\frac{2}{10} \times \frac{4}{5} =$
- 6) $\frac{4}{5} \times \frac{1}{2} =$
- 7) $\frac{6}{10} \times \frac{1}{2} =$
- 8) $\frac{1}{2} \times \frac{3}{4} =$
- 9) $\frac{2}{3} \times \frac{1}{2} =$
- 10) $\frac{1}{10} \times \frac{1}{2} =$
- 11) $\frac{5}{10} \times \frac{4}{5} =$
- 12) $\frac{3}{4} \times \frac{1}{5} =$
- 13) $\frac{1}{10} \times \frac{1}{2} =$
- 14) $\frac{1}{4} \times \frac{6}{10} =$
- 15) $\frac{3}{4} \times \frac{1}{2} =$

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Fractions Worksheets

Name _____ Date _____

READING AND WRITING 3 DIGIT NUMBERS



SHEET 2 ANSWERS

1) Match these numbers to the correct answers.

736	→	Eight hundred thirteen
813	→	Three hundred sixty-four
507	→	Seven hundred thirty-six
364	→	Five hundred seventy
570	→	Five hundred seven
484	→	Two hundred ninety-one
291	→	Four hundred eighty-four

2) Circle the biggest number in each line. The first one is done for you.

A	690	<u>147</u>	526
B	348	<u>109</u>	190
C	475	372	<u>285</u>
D	<u>567</u>	704	648
E	473	<u>308</u>	352



$$\frac{-5n}{4} = \frac{15}{2}$$

$$\frac{34}{6} = \frac{2x+1}{3}$$

$$\frac{-4a-1}{-10a} = \frac{3}{8}$$



Solve the fraction problem and reduce the answer to simplest form:

$$\frac{10}{60} + \frac{10}{20} = \frac{10}{60} \times \frac{20}{10} \rightarrow \frac{10}{30} \times \frac{20}{10} \rightarrow \frac{1 \times 1}{3 \times 1} = \frac{1}{3}$$

$$\frac{70}{90} + \frac{10}{80} = \frac{70}{90} \times \frac{80}{10} \rightarrow \frac{70}{90} \times \frac{80}{10} \rightarrow \frac{7 \times 8}{9 \times 1} = \frac{56}{9} \rightarrow 6 \frac{2}{9}$$

$$\frac{70}{100} + \frac{30}{40} = \frac{70}{100} \times \frac{40}{30} \rightarrow \frac{70}{100} \times \frac{40}{30} \rightarrow \frac{7 \times 2}{5 \times 3} = \frac{14}{15}$$

$$\frac{30}{50} + \frac{30}{60} = \frac{30}{50} \times \frac{60}{30} \rightarrow \frac{1}{5} \times \frac{6}{1} = \frac{1 \times 6}{5 \times 1} = \frac{6}{5} \rightarrow 1 \frac{1}{5}$$

$$\frac{30}{80} + \frac{50}{60} = \frac{30}{80} \times \frac{60}{50} \rightarrow \frac{3}{8} \times \frac{3}{5} = \frac{3 \times 3}{4 \times 5} = \frac{9}{20}$$

$$\frac{30}{60} + \frac{30}{50} = \frac{30}{60} \times \frac{50}{30} \rightarrow \frac{1}{2} \times \frac{5}{1} = \frac{1 \times 5}{2 \times 1} = \frac{5}{2}$$

$$\frac{10}{20} + \frac{10}{40} = \frac{10}{20} \times \frac{40}{10} \rightarrow \frac{1}{2} \times \frac{2}{1} = \frac{1 \times 2}{1 \times 1} = \frac{2}{1} = 2$$

$$\frac{10}{80} + \frac{30}{70} = \frac{10}{80} \times \frac{70}{30} \rightarrow \frac{1}{8} \times \frac{7}{3} = \frac{1 \times 7}{8 \times 3} = \frac{7}{24}$$

Multiplying Fractions with Cross Cancelling

1. $\frac{1}{2} \times \frac{2}{3} = \frac{1 \times 2}{2 \times 3} = \frac{1 \times 1}{1 \times 3} = \frac{1}{3}$

2. $\frac{2}{3} \times \frac{3}{4} = \frac{2 \times 3}{3 \times 4} = \frac{2 \times 1}{1 \times 4} = \frac{2}{4} = \frac{1}{2}$

3. $\frac{3}{4} \times \frac{4}{5} = \frac{3 \times 4}{4 \times 5} = \frac{3 \times 1}{1 \times 5} = \frac{3}{5}$

4. $\frac{4}{5} \times \frac{5}{6} = \frac{4 \times 5}{5 \times 6} = \frac{4 \times 1}{1 \times 6} = \frac{4}{6} = \frac{2}{3}$

5. $\frac{5}{6} \times \frac{6}{7} = \frac{5 \times 6}{6 \times 7} = \frac{5 \times 1}{1 \times 7} = \frac{5}{7}$

6. $\frac{6}{7} \times \frac{7}{8} = \frac{6 \times 7}{7 \times 8} = \frac{6 \times 1}{1 \times 8} = \frac{6}{8} = \frac{3}{4}$

7. $\frac{7}{8} \times \frac{8}{9} = \frac{7 \times 8}{8 \times 9} = \frac{7 \times 1}{1 \times 9} = \frac{7}{9}$

8. $\frac{8}{9} \times \frac{9}{10} = \frac{8 \times 9}{9 \times 10} = \frac{8 \times 1}{1 \times 10} = \frac{8}{10} = \frac{4}{5}$

9. $\frac{9}{10} \times \frac{10}{11} = \frac{9 \times 10}{10 \times 11} = \frac{9 \times 1}{1 \times 11} = \frac{9}{11}$

10. $\frac{10}{11} \times \frac{11}{12} = \frac{10 \times 11}{11 \times 12} = \frac{10 \times 1}{1 \times 12} = \frac{10}{12} = \frac{5}{6}$

11. $\frac{11}{12} \times \frac{12}{13} = \frac{11 \times 12}{12 \times 13} = \frac{11 \times 1}{1 \times 13} = \frac{11}{13}$

12. $\frac{12}{13} \times \frac{13}{14} = \frac{12 \times 13}{13 \times 14} = \frac{12 \times 1}{1 \times 14} = \frac{12}{14} = \frac{6}{7}$

13. $\frac{13}{14} \times \frac{14}{15} = \frac{13 \times 14}{14 \times 15} = \frac{13 \times 1}{1 \times 15} = \frac{13}{15}$

14. $\frac{14}{15} \times \frac{15}{16} = \frac{14 \times 15}{15 \times 16} = \frac{14 \times 1}{1 \times 16} = \frac{14}{16} = \frac{7}{8}$

15. $\frac{15}{16} \times \frac{16}{17} = \frac{15 \times 16}{16 \times 17} = \frac{15 \times 1}{1 \times 17} = \frac{15}{17}$

16. $\frac{16}{17} \times \frac{17}{18} = \frac{16 \times 17}{17 \times 18} = \frac{16 \times 1}{1 \times 18} = \frac{16}{18} = \frac{8}{9}$

17. $\frac{17}{18} \times \frac{18}{19} = \frac{17 \times 18}{18 \times 19} = \frac{17 \times 1}{1 \times 19} = \frac{17}{19}$

18. $\frac{18}{19} \times \frac{19}{20} = \frac{18 \times 19}{19 \times 20} = \frac{18 \times 1}{1 \times 20} = \frac{18}{20} = \frac{9}{10}$

19. $\frac{19}{20} \times \frac{20}{21} = \frac{19 \times 20}{20 \times 21} = \frac{19 \times 1}{1 \times 21} = \frac{19}{21}$

20. $\frac{20}{21} \times \frac{21}{22} = \frac{20 \times 21}{21 \times 22} = \frac{20 \times 1}{1 \times 22} = \frac{20}{22} = \frac{10}{11}$

21. $\frac{21}{22} \times \frac{22}{23} = \frac{21 \times 22}{22 \times 23} = \frac{21 \times 1}{1 \times 23} = \frac{21}{23}$

22. $\frac{22}{23} \times \frac{23}{24} = \frac{22 \times 23}{23 \times 24} = \frac{22 \times 1}{1 \times 24} = \frac{22}{24} = \frac{11}{12}$

23. $\frac{23}{24} \times \frac{24}{25} = \frac{23 \times 24}{24 \times 25} = \frac{23 \times 1}{1 \times 25} = \frac{23}{25}$

24. $\frac{24}{25} \times \frac{25}{26} = \frac{24 \times 25}{25 \times 26} = \frac{24 \times 1}{1 \times 26} = \frac{24}{26} = \frac{12}{13}$

25. $\frac{25}{26} \times \frac{26}{27} = \frac{25 \times 26}{26 \times 27} = \frac{25 \times 1}{1 \times 27} = \frac{25}{27}$

26. $\frac{26}{27} \times \frac{27}{28} = \frac{26 \times 27}{27 \times 28} = \frac{26 \times 1}{1 \times 28} = \frac{26}{28} = \frac{13}{14}$

27. $\frac{27}{28} \times \frac{28}{29} = \frac{27 \times 28}{28 \times 29} = \frac{27 \times 1}{1 \times 29} = \frac{27}{29}$

28. $\frac{28}{29} \times \frac{29}{30} = \frac{28 \times 29}{29 \times 30} = \frac{28 \times 1}{1 \times 30} = \frac{28}{30} = \frac{14}{15}$

29. $\frac{29}{30} \times \frac{30}{31} = \frac{29 \times 30}{30 \times 31} = \frac{29 \times 1}{1 \times 31} = \frac{29}{31}$

30. $\frac{30}{31} \times \frac{31}{32} = \frac{30 \times 31}{31 \times 32} = \frac{30 \times 1}{1 \times 32} = \frac{30}{32} = \frac{15}{16}$

31. $\frac{31}{32} \times \frac{32}{33} = \frac{31 \times 32}{32 \times 33} = \frac{31 \times 1}{1 \times 33} = \frac{31}{33}$

32. $\frac{32}{33} \times \frac{33}{34} = \frac{32 \times 33}{33 \times 34} = \frac{32 \times 1}{1 \times 34} = \frac{32}{34} = \frac{16}{17}$

33. $\frac{33}{34} \times \frac{34}{35} = \frac{33 \times 34}{34 \times 35} = \frac{33 \times 1}{1 \times 35} = \frac{33}{35}$

34. $\frac{34}{35} \times \frac{35}{36} = \frac{34 \times 35}{35 \times 36} = \frac{34 \times 1}{1 \times 36} = \frac{34}{36} = \frac{17}{18}$

35. $\frac{35}{36} \times \frac{36}{37} = \frac{35 \times 36}{36 \times 37} = \frac{35 \times 1}{1 \times 37} = \frac{35}{37}$

36. $\frac{36}{37} \times \frac{37}{38} = \frac{36 \times 37}{37 \times 38} = \frac{36 \times 1}{1 \times 38} = \frac{36}{38} = \frac{18}{19}$

37. $\frac{37}{38} \times \frac{38}{39} = \frac{37 \times 38}{38 \times 39} = \frac{37 \times 1}{1 \times 39} = \frac{37}{39}$

38. $\frac{38}{39} \times \frac{39}{40} = \frac{38 \times 39}{39 \times 40} = \frac{38 \times 1}{1 \times 40} = \frac{38}{40} = \frac{19}{20}$

39. $\frac{39}{40} \times \frac{40}{41} = \frac{39 \times 40}{40 \times 41} = \frac{39 \times 1}{1 \times 41} = \frac{39}{41}$

40. $\frac{40}{41} \times \frac{41}{42} = \frac{40 \times 41}{41 \times 42} = \frac{40 \times 1}{1 \times 42} = \frac{40}{42} = \frac{20}{21}$

41. $\frac{41}{42} \times \frac{42}{43} = \frac{41 \times 42}{42 \times 43} = \frac{41 \times 1}{1 \times 43} = \frac{41}{43}$

42. $\frac{42}{43} \times \frac{43}{44} = \frac{42 \times 43}{43 \times 44} = \frac{42 \times 1}{1 \times 44} = \frac{42}{44} = \frac{21}{22}$

43. $\frac{43}{44} \times \frac{44}{45} = \frac{43 \times 44}{44 \times 45} = \frac{43 \times 1}{1 \times 45} = \frac{43}{45}$

44. $\frac{44}{45} \times \frac{45}{46} = \frac{44 \times 45}{45 \times 46} = \frac{44 \times 1}{1 \times 46} = \frac{44}{46} = \frac{22}{23}$

45. $\frac{45}{46} \times \frac{46}{47} = \frac{45 \times 46}{46 \times 47} = \frac{45 \times 1}{1 \times 47} = \frac{45}{47}$

46. $\frac{46}{47} \times \frac{47}{48} = \frac{46 \times 47}{47 \times 48} = \frac{46 \times 1}{1 \times 48} = \frac{46}{48} = \frac{23}{24}$

47. $\frac{47}{48} \times \frac{48}{49} = \frac{47 \times 48}{48 \times 49} = \frac{47 \times 1}{1 \times 49} = \frac{47}{49}$

48. $\frac{48}{49} \times \frac{49}{50} = \frac{48 \times 49}{49 \times 50} = \frac{48 \times 1}{1 \times 50} = \frac{48}{50} = \frac{24}{25}$

49. $\frac{49}{50} \times \frac{50}{51} = \frac{49 \times 50}{50 \times 51} = \frac{49 \times 1}{1 \times 51} = \frac{49}{51}$

50. $\frac{50}{51} \times \frac{51}{52} = \frac{50 \times 51}{51 \times 52} = \frac{50 \times 1}{1 \times 52} = \frac{50}{52} = \frac{25}{26}$

51. $\frac{51}{52} \times \frac{52}{53} = \frac{51 \times 52}{52 \times 53} = \frac{51 \times 1}{1 \times 53} = \frac{51}{53}$

52. $\frac{52}{53} \times \frac{53}{54} = \frac{52 \times 53}{53 \times 54} = \frac{52 \times 1}{1 \times 54} = \frac{52}{54} = \frac{26}{27}$

53. $\frac{53}{54} \times \frac{54}{55} = \frac{53 \times 54}{54 \times 55} = \frac{53 \times 1}{1 \times 55} = \frac{53}{55}$

54. $\frac{54}{55} \times \frac{55}{56} = \frac{54 \times 55}{55 \times 56} = \frac{54 \times 1}{1 \times 56} = \frac{54}{56} = \frac{27}{28}$

55. $\frac{55}{56} \times \frac{56}{57} = \frac{55 \times 56}{56 \times 57} = \frac{55 \times 1}{1 \times 57} = \frac{55}{57}$

56. $\frac{56}{57} \times \frac{57}{58} = \frac{56 \times 57}{57 \times 58} = \frac{56 \times 1}{1 \times 58} = \frac{56}{58} = \frac{28}{29}$

57. $\frac{57}{58} \times \frac{58}{59} = \frac{57 \times 58}{58 \times 59} = \frac{57 \times 1}{1 \times 59} = \frac{57}{59}$

58. $\frac{58}{59} \times \frac{59}{60} = \frac{58 \times 59}{59 \times 60} = \frac{58 \times 1}{1 \times 60} = \frac{58}{60} = \frac{29}{30}$

59. $\frac{59}{60} \times \frac{60}{61} = \frac{59 \times 60}{60 \times 61} = \frac{59 \times 1}{1 \times 61} = \frac{59}{61}$

60. $\frac{60}{61} \times \frac{61}{62} = \frac{60 \times 61}{61 \times 62} = \frac{60 \times 1}{1 \times 62} = \frac{60}{62} = \frac{30}{31}$

61. $\frac{61}{62} \times \frac{62}{63} = \frac{61 \times 62}{62 \times 63} = \frac{61 \times 1}{1 \times 63} = \frac{61}{63}$

62. $\frac{62}{63} \times \frac{63}{64} = \frac{62 \times 63}{63 \times 64} = \frac{62 \times 1}{1 \times 64} = \frac{62}{64} = \frac{31}{32}$

63. $\frac{63}{64} \times \frac{64}{65} = \frac{63 \times 64}{64 \times 65} = \frac{63 \times 1}{1 \times 65} = \frac{63}{65}$

64. $\frac{64}{65} \times \frac{65}{66} = \frac{64 \times 65}{65 \times 66} = \frac{64 \times 1}{1 \times 66} = \frac{64}{66} = \frac{32}{33}$

65. $\frac{65}{66} \times \frac{66}{67} = \frac{65 \times 66}{66 \times 67} = \frac{65 \times 1}{1 \times 67} = \frac{65}{67}$

66. $\frac{66}{67} \times \frac{67}{68} = \frac{66 \times 67}{67 \times 68} = \frac{66 \times 1}{1 \times 68} = \frac{66}{68} = \frac{33}{34}$

67. $\frac{67}{68} \times \frac{68}{69} = \frac{67 \times 68}{68 \times 69} = \frac{67 \times 1}{1 \times 69} = \frac{67}{69}$

68. $\frac{68}{69} \times \frac{69}{70} = \frac{68 \times 69}{69 \times 70} = \frac{68 \times 1}{1 \times 70} = \frac{68}{70} = \frac{34}{35}$

69. $\frac{69}{70} \times \frac{70}{71} = \frac{69 \times 70}{70 \times 71} = \frac{69 \times 1}{1 \times 71} = \frac{69}{71}$

70. $\frac{70}{71} \times \frac{71}{72} = \frac{70 \times 71}{71 \times 72} = \frac{70 \times 1}{1 \times 72} = \frac{70}{72} = \frac{35}{36}$

71. $\frac{71}{72} \times \frac{72}{73} = \frac{71 \times 72}{72 \times 73} = \frac{71 \times 1}{1 \times 73} = \frac{71}{73}$

72. $\frac{72}{73} \times \frac{73}{74} = \frac{72 \times 73}{73 \times 74} = \frac{72 \times 1}{1 \times 74} = \frac{72}{74} = \frac{36}{37}$

73. $\frac{73}{74} \times \frac{74}{75} = \frac{73 \times 74}{74 \times 75} = \frac{73 \times 1}{1 \times 75} = \frac{73}{75}$

74. $\frac{74}{75} \times \frac{75}{76} = \frac{74 \times 75}{75 \times 76} = \frac{74 \times 1}{1 \times 76} = \frac{74}{76} = \frac{37}{38}$

75. $\frac{75}{76} \times \frac{76}{77} = \frac{75 \times 76}{76 \times 77} = \frac{75 \times 1}{1 \times 77} = \frac{75}{77}$

76. $\frac{76}{77} \times \frac{77}{78} = \frac{76 \times 77}{77 \times 78} = \frac{76 \times 1}{1 \times 78} = \frac{76}{78} = \frac{38}{39}$

77. $\frac{77}{78} \times \frac{78}{79} = \frac{77 \times 78}{78 \times 79} = \frac{77 \times 1}{1 \times 79} = \frac{77}{79}$

78. $\frac{78}{79} \times \frac{79}{80} = \frac{78 \times 79}{79 \times 80} = \frac{78 \times 1}{1 \times 80} = \frac{78}{80} = \frac{39}{40}$

79. $\frac{79}{80} \times \frac{80}{81} = \frac{79 \times 80}{80 \times 81} = \frac{79 \times 1}{1 \times 81} = \frac{79}{81}$

80. $\frac{80}{81} \times \frac{81}{82} = \frac{80 \times 81}{81 \times 82} = \frac{80 \times 1}{1 \times 82} = \frac{80}{82} = \frac{40}{41}$

81. $\frac{81}{82} \times \frac{82}{83} = \frac{81 \times 82}{82 \times 83} = \frac{81 \times 1}{1 \times 83} = \frac{81}{83}$

82. $\frac{82}{83} \times \frac{83}{84} = \frac{82 \times 83}{83 \times 84} = \frac{82 \times 1}{1 \times 84} = \frac{82}{84} = \frac{41}{42}$

83. $\frac{83}{84} \times \frac{84}{85} = \frac{83 \times 84}{84 \times 85} = \frac{83 \times 1}{1 \times 85} = \frac{83}{85}$

84. $\frac{84}{85} \times \frac{85}{86} = \frac{84 \times 85}{85 \times 86} = \frac{84 \times 1}{1 \times 86} = \frac{84}{86} = \frac{42}{43}$

85. $\frac{85}{86} \times \frac{86}{87} = \frac{85 \times 86}{86 \times 87} = \frac{85 \times 1}{1 \times 87} = \frac{85}{87}$

86. $\frac{86}{87} \times \frac{87}{88} = \frac{86 \times 87}{87 \times 88} = \frac{86 \times 1}{1 \times 88} = \frac{86}{88} = \frac{43}{44}$

87. $\frac{87}{88} \times \frac{88}{89} = \frac{87 \times 88}{88 \times 89} = \frac{87 \times 1}{1 \times 89} = \frac{87}{89}$

88. $\frac{88}{89} \times \frac{89}{90} = \frac{88 \times 89}{89 \times 90} = \frac{88 \times 1}{1 \times 90} = \frac{88}{90} = \frac{44}{45}$

89. $\frac{89}{90} \times \frac{90}{91} = \frac{89 \times 90}{90 \times 91} = \frac{89 \times 1}{1 \times 91} = \frac{89}{91}$

90. $\frac{90}{91} \times \frac{91}{92} = \frac{90 \times 91}{91 \times 92} = \frac{90 \times 1}{1 \times 92} = \frac{90}{92} = \frac{45}{46}$

91. $\frac{91}{92} \times \frac{92}{93} = \frac{91 \times 92}{92 \times 93} = \frac{91 \times 1}{1 \times 93} = \frac{91}{93}$

92. $\frac{92}{93} \times \frac{93}{94} = \frac{92 \times 93}{93 \times 94} = \frac{92 \times 1}{1 \times 94} = \frac{92}{94} = \frac{46}{47}$

93. $\frac{93}{94} \times \frac{94}{95} = \frac{93 \times 94}{94 \times 95} = \frac{93 \times 1}{1 \times 95} = \frac{93}{95}$

94. $\frac{94}{95} \times \frac{95}{96} = \frac{94 \times 95}{95 \times 96} = \frac{94 \times 1}{1 \times 96} = \frac{94}{96} = \frac{47}{48}$

95. $\frac{95}{96} \times \frac{96}{97} = \frac{95 \times 96}{96 \times 97} = \frac{95 \times 1}{1 \times 97} = \frac{95}{97}$

96. $\frac{96}{97} \times \frac{97}{98} = \frac{96 \times 97}{97 \times 98} = \frac{96 \times 1}{1 \times 98} = \frac{96}{98} = \frac{48}{49}$

97. $\frac{97}{98} \times \frac{98}{99} = \frac{97 \times 98}{98 \times 99} = \frac{97 \times 1}{1 \times 99} = \frac{97}{99}$

98. $\frac{98}{99} \times \frac{99}{100} = \frac{98 \times 99}{99 \times 100} = \frac{98 \times 1}{1 \times 100} = \frac{98}{100} = \frac{49}{50}$

99. $\frac{99}{100} \times \frac{100}{101} = \frac{99 \times 100}{100 \times 101} = \frac{99 \times 1}{1 \times 101} = \frac{99}{101}$

100. $\frac{100}{101} \times \frac{101}{102} = \frac{100 \times 101}{101 \times 102} = \frac{100 \times 1}{1 \times 102} = \frac{100}{102} = \frac{50}{51}$

Cross multiply fractions worksheet. Cross multiply rational equations worksheet. Cross multiply and divide worksheets. Comparing fractions cross multiply worksheet. Ratio cross multiply worksheet. Proportion cross multiply worksheet.

Order of Operations with Decimals Worksheets Expanded Form with Decimals Expanded form with decimals worksheets including converting from standard to expanded form and from expanded form to standard form. For example, if the division question is 5.32/5.6, you would multiply the divisor and dividend by 10 to get the equivalent division problem, 53.2/56. More information on them is included just under the sub-title. For example, 4.584184 ÷ 0.461 can first be converted to the equivalent: 4584.184 ÷ 461 (you can estimate the quotient to be around 10). It would be a really good idea for students to have a strong knowledge of addition, subtraction, multiplication and division before attempting these questions. But multiplying fractions turns out to be one of the easier things you can do when you are working with fractions! One reason is that when multiplying fractions, you do not have to worry about common denominators. For example, most people would round up on a 5 such as: 6.5 --> 7; 3.555 --> 3.56; 0.60500 --> 0.61; etc. There are many operations with decimals worksheets throughout the page. A simple strategy for rounding involves truncating, using the digits after the truncation to determine whether the new terminating digit remains the same or gets incremented, then taking action by incrementing if necessary and throwing away the rest. Instead, you always apply the same rule: multiply straight across. For example: Round 6.959 to the nearest tenth. If you always round up on a 5, on average, you will have slightly higher results than you should. Dividing decimal numbers doesn't have to be too difficult, especially with the worksheets below where the decimals work out nicely. Here is a simple example: Round 4.567 to the nearest tenth. Rounding Decimals Worksheets Rounding decimals worksheets with options for rounding a variety of decimal numbers to a variety of places. Combining this strategy with the one above can also help a great deal with more difficult questions. Of course, you will see the quotients only on the answer page, but generating questions in this way makes every decimal division problem work out nicely. Lastly, increment the tenths value by 1 to get 4.6. Of course, the situation gets a little more complicated if the terminating digit is a 9, which is equivalent to 1/3. One last note: if there are three truncated digits then the question becomes is the number more than half way to 999. It is, so the decision will be to increment. Complete the division question without decimals: 4584184 ÷ 461 = 9944 then place the decimal, so that 9944 is about 10. Dividing with quotients that work out nicely In case you aren't familiar with dividing with a decimal divisor, the general method for completing questions is by getting rid of the decimal in the divisor. is difficult, but multiplying 300 by 1/3 is super easy! Students should be familiar with some of the more common fraction/decimal conversions, so they can switch back and forth as needed. If you "flexibly" round the original, you will get about 5/5 which is about 1, so the decimal in 95 must be placed to make 95 close to 1. This results in 9.944. To make these worksheets, we randomly generated a divisor and a quotient first, then multiplied them together to get the dividend. Truncate: 6.9/59. Multiplying 300 by 0.333... Is it more than half way to 99 (i.e. 50 or more)? Ordering Decimal Hundredths Ordering Decimal Thousandths Converting Decimals to Fractions and other Number Formats Converting decimals worksheets mainly for converting between decimals and fractions but also to percents and ratios. Converting Fractions to Terminating Decimals Converting Fractions to Terminating and Repeating Decimals Converting Terminating Decimals to Fractions Converting Terminating and Repeating Decimals to Fractions Converting Fractions to Hundredths Converting Fractions to Decimals, Percents and Part-to-Part Ratios Converting Fractions to Decimals, Percents and Part-to-Whole Ratios Converting Decimals to Fractions, Percents and Part-to-Part Ratios Converting Decimals to Fractions, Percents and Part-to-Whole Ratios Converting Percents to Fractions, Decimals and Part-to-Whole Ratios Converting Part-to-Part Ratios to Fractions, Decimals and Percents Converting Part-to-Whole Ratios to Fractions, Decimals and Percents Converting Various Fractions, Decimals, Percents and Part-to-Part Ratios Converting Various Fractions, Decimals, Percents and Part-to-Whole Ratios with 7ths and 11ths Converting Various Fractions, Decimals, Percents and Part-to-Whole Ratios with 7ths and 11ths Adding and subtracting decimals worksheets with various difficulties including adding and subtracting by themselves and also mixed on the page. And so on... Consider 0.333... Incrementing results in the necessity to regroup the tenths into an extra one whole, so the result is 7.0. Watch that students do not write 6.10. On this page, you will find Decimals worksheets on a variety topics including comparing and sorting decimals, adding, subtracting, multiplying and dividing decimals, and converting decimals to other number formats. Because most pre-college students round up on a 5, that is what we have done in the worksheets that follow. Generally, students determine the least (or greatest) decimal to start, cross it off the list then repeat the process to find the next lowest/greatest until they get to the last number. Further down the page, rounding, comparing and ordering decimals worksheets allow students to gain more comfort with decimals before they move on to performing operations with decimals. This is done by multiplying the divisor and the dividend by the same amount, usually a power of ten such as 10, 100 or 1000. The main reason for this is not to skew the results of a large number of rounding events. You will want to correct them right away in that case. Most Popular Decimals Worksheets this Week General Use Printables General use decimal printables are used in a variety of contexts and assist students in completing math questions related to decimals. Fractions can seem to be a complicated idea in math. Comparing and Ordering Decimals Worksheets Comparing and ordering decimals worksheets to help students recognize ordinality in decimal numbers. In that case, some regrouping might be necessary. In the same example as above, you would complete 532/56 = 9.5. The main reason for completing decimal division in this way is to get the decimal in the correct location when using the U.S. long division algorithm. The comparing decimals worksheets have students compare pairs of numbers and the ordering decimals worksheets have students compare a list of numbers by sorting them. First, truncate the number after the tenths place 4.5/67. Next, look at the truncated part (.67). In this case, you would place it just before the 9 to get 0.95. Checking the list at the end is always a good idea. Thanks for visiting the U.S. number format version of the decimals and percents worksheets page at Math-Drills.Com where we make a POINT of helping students learn. If you would prefer non-English format decimals (i.e. commas used as decimals), please visit the European Format Decimals page. To start, you will find the general use printables to be helpful in teaching the concepts of decimals and place value. Ordering or sorting decimal numbers Ordering decimals is very much like comparing decimals except there are more than two numbers. We should also mention that in some scientific and mathematical "circles," rounding is slightly different "on a 5". Dealing with a fraction in operations is often easier than the equivalent decimal. A different way to round on a 5, however, is to round to the nearest even number, so 5.5 would be rounded up to 6, but 8.5 would be rounded down to 8. You can see this in the examples below or you can scroll down for a video example. Rounding decimals Rounding decimals is similar to rounding whole numbers; you have to know your place value! When learning about rounding, it is also useful to learn about truncating since it may help students to round properly. Converting decimals to fractions and other number formats There are many good reasons for converting decimals to other number formats. Multiplying and Dividing Decimals Worksheets Multiplying and dividing decimals worksheets with a variety of difficulty levels. Likewise, for one digit; is the number more than half way to 9. Completing this division will result in the exact same quotient as the original (try it on your calculator if you don't believe us). At the end of the page, you will find decimal numbers used in order of operations questions. A much simpler strategy, in our opinion, is to initially ignore the decimals all together and use estimation to place the decimal in the quotient. Decide to increment since 59 is more than half way to 99.

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