11+ Practice Papers

Fractions Revision

Pack 1

Equivalent Fractions, Comparing Fractions, Addition, Subtraction, Fraction Lines and Word Problems (addition and subtraction)

Practice makes Perfect

Fractions Practice Paper 1 (11+)

Comparing Fractions

Write the correct symbol ">" "=" or "<" to compare the fractions.

1) $\dfrac{1}{4}$ ___ $\dfrac{18}{8}$

2) $\dfrac{8}{5}$ ___ $\dfrac{6}{9}$

3) $\dfrac{1}{6}$ ___ $\dfrac{6}{8}$

4) $\dfrac{2}{5}$ ___ $\dfrac{2}{3}$

5) $\dfrac{17}{6}$ ___ $\dfrac{1}{4}$

6) $\dfrac{1}{4}$ ___ $\dfrac{1}{3}$

7) $\dfrac{2}{6}$ ___ $\dfrac{24}{30}$

8) $\dfrac{15}{40}$ ___ $\dfrac{12}{18}$

9) $\dfrac{4}{6}$ ___ $\dfrac{3}{8}$

10) $\dfrac{3}{5}$ ___ $\dfrac{1}{4}$

11) $\dfrac{1}{4}$ ___ $\dfrac{2}{3}$

12) $\dfrac{15}{6}$ ___ $\dfrac{2}{5}$

13) $\dfrac{2}{8}$ ___ $\dfrac{17}{6}$

14) $\dfrac{1}{4}$ ___ $\dfrac{3}{9}$

15) $\dfrac{14}{8}$ ___ $\dfrac{2}{5}$

16) $\dfrac{6}{4}$ ___ $\dfrac{2}{5}$

Equivalent Fractions

Complete the equivalent fractions.

17) $\dfrac{3}{7} = \dfrac{}{49} = \dfrac{27}{}$

18) $\dfrac{3}{5} = \dfrac{}{15} = \dfrac{}{10}$

19) $\dfrac{4}{13} = \dfrac{}{117} = \dfrac{}{130}$

20) $\dfrac{8}{12} = \dfrac{}{108} = \dfrac{}{84}$

21) $\dfrac{7}{11} = \dfrac{42}{} = \dfrac{28}{}$

22) $\dfrac{4}{6} = \dfrac{8}{} = \dfrac{}{54}$

23) $\dfrac{2}{3} = \dfrac{14}{} = \dfrac{4}{}$

24) $\dfrac{5}{8} = \dfrac{50}{} = \dfrac{}{32}$

25) $\dfrac{3}{9} = \dfrac{}{81} = \dfrac{12}{}$

26) $\dfrac{10}{12} = \dfrac{}{84} = \dfrac{}{72}$

27) $\dfrac{8}{13} = \dfrac{}{65} = \dfrac{}{91}$

28) $\dfrac{4}{11} = \dfrac{}{77} = \dfrac{24}{}$

29) $\dfrac{4}{7} = \dfrac{}{49} = \dfrac{12}{}$

30) $\dfrac{2}{3} = \dfrac{}{9} = \dfrac{}{24}$

31) $\dfrac{4}{5} = \dfrac{20}{} = \dfrac{16}{}$

Fractions Addition 1

Add the fractions and write the answer as a whole number, mixed number or proper fraction in its simplest form.

32) $6\frac{1}{3} + \frac{1}{3} =$ _____

33) $9\frac{5}{6} + \frac{3}{6} =$ _____

34) $3\frac{4}{5} + \frac{2}{5} =$ _____

35) $5\frac{2}{4} + \frac{2}{4} =$ _____

36) $6\frac{1}{4} + \frac{2}{4} =$ _____

37) $9\frac{1}{8} + \frac{3}{8} =$ _____

38) $5\frac{2}{3} + \frac{1}{3} =$ _____

39) $2\frac{1}{6} + \frac{1}{6} =$ _____

40) $8\frac{1}{5} + \frac{2}{5} =$ _____

Fractions Addition 2

Add the fractions and write the answer as a whole number, mixed number or proper fraction in its simplest form.

41) $5\frac{4}{9} + 2\frac{3}{5} =$ _____

42) $2\frac{2}{4} + 9\frac{1}{3} =$ _____

43) $7\frac{5}{9} + 7\frac{5}{6} =$ _____

44) $2\frac{1}{3} + 8\frac{1}{3} =$ _____

45) $7\frac{1}{5} + 1\frac{1}{4} =$ _____

46) $6\frac{7}{9} + 7\frac{5}{6} =$ _____

47) $9\frac{1}{6} + 6\frac{5}{6} =$ _____

48) $6\frac{4}{7} + 9\frac{1}{3} =$ _____

49) $9\frac{2}{3} + 5\frac{2}{3} =$ _____

50) $5\frac{3}{6} + 7\frac{3}{4} =$ _____

51) $2\frac{3}{5} + 5\frac{1}{4} =$ _____

52) $7\frac{3}{4} + 7\frac{2}{3} =$ _____

Fractions Addition 3

Add the fractions and write the answer as a whole number, mixed number or proper fraction in its simplest form.

53) $6\frac{1}{3} + \frac{40}{6} =$ _____

54) $2\frac{1}{6} + \frac{10}{3} =$ _____

55) $3\frac{3}{5} + \frac{43}{5} =$ _____

56) $8\frac{4}{8} + \frac{25}{6} =$ _____

57) $7\frac{4}{6} + \frac{31}{6} =$ _____

58) $9\frac{2}{3} + \frac{23}{4} =$ _____

59) $4\frac{4}{5} + \frac{38}{4} =$ _____

60) $4\frac{3}{6} + \frac{28}{3} =$ _____

61) $9\frac{5}{8} + \frac{28}{5} =$ _____

62) $8\frac{3}{4} + \frac{16}{5} =$ _____

Word Problems - Fractions Addition

63) A recipe requires $2\frac{1}{5}$ cups of white flour and $\frac{1}{3}$ of a cup of whole wheat flour. How much flour in total is needed for the recipe?

_____

64) What is $8\frac{1}{5}$ plus $\frac{1}{5}$?

_____

65) David baked two differernt types of pizzas. He used $6\frac{2}{3}$ teaspoons of dried herbs for one pizza and $\frac{6}{8}$ for the other. How many teaspoons of dried herbs did he use in total?

_____

66) For the school's sports day, the year 6 students prepared $4\frac{1}{12}$ litres of orange juice. At the end of the day they had $\frac{6}{8}$ litres left over. How many litres of orange juice were sold?

_____

67) Audrey cycled $5\frac{3}{4}$ miles. She then stopped to have a snack. Then she cycled $\frac{4}{6}$ more of a mile. How far did Audrey cycle?

_____

68) What is the sum of $1\frac{1}{8}$ and $\frac{1}{8}$?

_____

69) Steven ran $2\frac{4}{5}$ of a mile and then walked another $\frac{2}{3}$ of a mile. How far did he travel?

_____

70) If the sum of two fractions is $8\frac{7}{8}$ and the first fraction is $8\frac{5}{8}$, what is the second fraction?

_____

71) For the school's sports day, the year 6 students prepared $4\frac{23}{24}$ litres of orange juice. At the end of the day they had $\frac{5}{8}$ litres left over. How many litres of orange juice were sold?

_____

Fractions Subtraction 1

Find the difference and write the answer as a whole number, mixed number or proper fraction in its simplest form.

72) $7\frac{1}{4} - \frac{3}{4} =$ _____

73) $4\frac{3}{6} - \frac{5}{6} =$ _____

74) $8\frac{1}{3} - \frac{2}{3} =$ _____

75) $4\frac{1}{4} - \frac{3}{4} =$ _____

76) $1\frac{1}{6} - \frac{1}{6} =$ _____

77) $5\frac{1}{8} - \frac{3}{8} =$ _____

78) $8\frac{1}{5} - \frac{3}{5} =$ _____

79) $1\frac{2}{4} - \frac{3}{4} =$ _____

80) $1\frac{1}{3} - \frac{2}{3} =$ _____

Fractions Subtraction 2

Find the difference and write the answer as a whole number, mixed number or proper fraction in its simplest form.

81) $9\frac{2}{4} - \frac{55}{6} =$ _____

82) $7\frac{2}{9} - \frac{19}{3} =$ _____

83) $7\frac{2}{4} - \frac{51}{8} =$ _____

84) $7\frac{1}{3} - \frac{20}{3} =$ _____

85) $5\frac{3}{5} - \frac{12}{5} =$ _____

86) $5\frac{4}{6} - \frac{21}{4} =$ _____

87) $4\frac{1}{5} - \frac{19}{5} =$ _____

88) $4\frac{4}{7} - \frac{17}{8} =$ _____

89) $4\frac{2}{4} - \frac{7}{6} =$ _____

90) $9\frac{7}{9} - \frac{17}{4} =$ _____

91) $8\frac{2}{7} - \frac{32}{5} =$ _____

92) $5\frac{2}{7} - \frac{21}{4} =$ _____

Fractions Subtraction 3

Find the difference and write the answer as a whole number, mixed number or proper fraction in its simplest form.

93) $8\frac{4}{6} - \frac{49}{6} =$ _____

94) $9\frac{2}{5} - \frac{39}{5} =$ _____

95) $9\frac{3}{4} - \frac{37}{4} =$ _____

96) $8\frac{1}{8} - \frac{61}{8} =$ _____

97) $6\frac{2}{6} - \frac{13}{6} =$ _____

98) $6\frac{2}{5} - \frac{29}{5} =$ _____

99) $8\frac{1}{3} - \frac{23}{3} =$ _____

100) $7\frac{1}{4} - \frac{21}{4} =$ _____

101) $5\frac{3}{8} - \frac{13}{8} =$ _____

102) $6\frac{2}{3} - \frac{19}{3} =$ _____

Word Problems - Fractions Subtraction

103) If you subtract $\frac{5}{6}$ from another fraction and the result is $1\frac{7}{24}$, what was the other fraction?

_____

104) If you subtract $\frac{3}{5}$ from $5\frac{4}{5}$ what is the result?

_____

105) Sandra ran $\frac{11}{12}$ of a marathon. Ellen ran $\frac{2}{3}$ of a marathon. How much farther did Sandra run compared to Ellen?

_____

106) Allan is working on a project that requires a piece of wire that is $\frac{5}{6}$ of a meter long. He has a longer piece of wire that he cuts and removes $5\frac{1}{2}$ of a meter to make it the right size. How long was the original piece of wire?

_____

107) Brian walked $3\frac{3}{5}$ miles on Monday and walked $\frac{3}{5}$ of a mile on Tuesday. How much farther did Brian walk on Monday?

_____

108) Jackie has to walk $\frac{2}{3}$ of a kilometer to get to school. Audrey has to travel $3\frac{4}{8}$ kilometers to get to school. How much farther does Audrey have to travel than Jackie to get to school?

_____

109) Ellen bought $2\frac{1}{3}$ grams of raisins. After eating some of the raisins there was $1\frac{2}{3}$ grams left over. How much did Ellen already eat?

_____

110) Billy bought $4\frac{3}{5}$ pounds of jelly beans. He ate $\frac{5}{6}$ of a pound. How much was left?
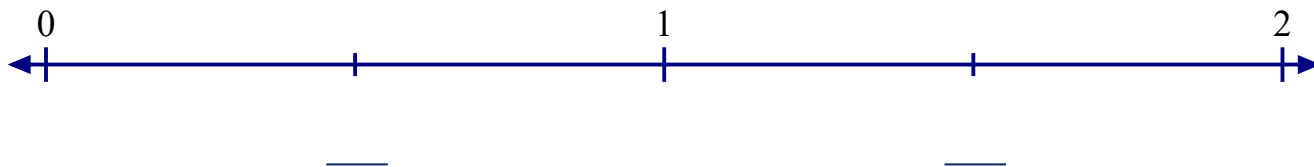
_____

111) What is $8\frac{1}{4}$ minus $\frac{5}{8}$?
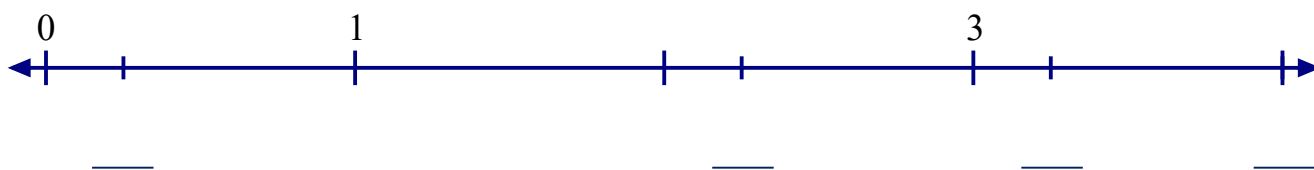
_____

Number Lines - Fractions

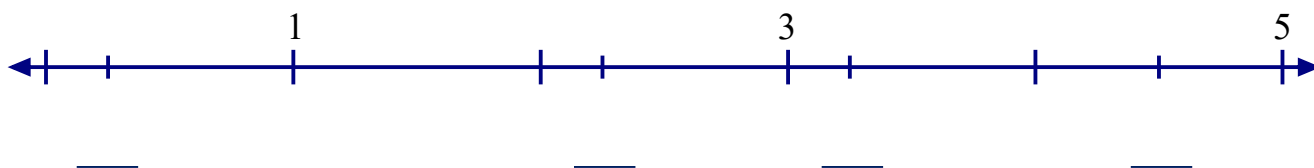Identify where each set of points should be placed on the number lines below.
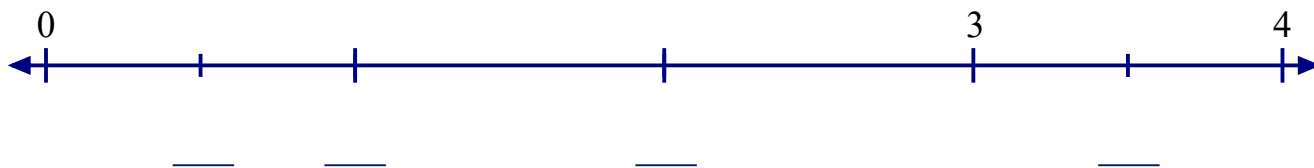
112) $\frac{1}{2}$ $1\frac{1}{2}$

0   1   2

113) $3\frac{1}{4}$ $\frac{1}{4}$ $2\frac{1}{4}$ 4

0   1   3

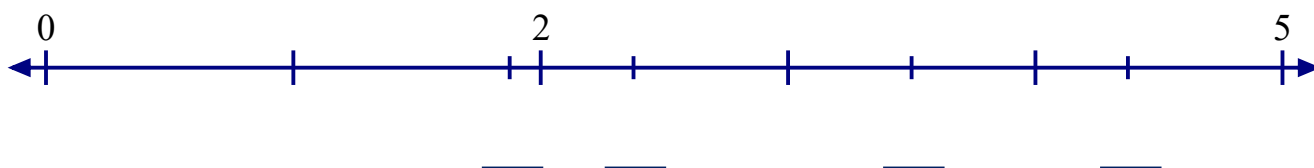**114)** $\frac{1}{4}$ $2\frac{1}{4}$ $3\frac{1}{4}$ $4\frac{1}{2}$

1   3   5

115) 2   1 $3\frac{1}{2}$ $\frac{1}{2}$

0   3   4

116) $1\frac{7}{8}$ $2\frac{3}{8}$ $3\frac{1}{2}$ $4\frac{3}{8}$

0   2   5

ANSWERS

Page 1: Comparing Fractions

1. <   **2.** >   **3.** <   **4.** <   **5.** >   **6.** <   **7.** <   **8.** <   **9.** >   **10.** >   **11.** <   **12.** >   **13.** <

14. <   **15.** >   **16.** >

Page 1: Equivalent Fractions

17. 21, 63   **18.** 9, 6   **19.** 36, 40   **20.** 72, 56   **21.** 66, 44   **22.** 12, 36   **23.** 21, 6   **24.** 80, 20

25. 27, 36   **26.** 70, 60   **27.** 40, 56   **28.** 28, 66   **29.** 28, 21   **30.** 6, 16   **31.** 25, 20

Page 2: Fractions Addition 1

32. 6 2/3   **33.** 10 1/3   **34.** 4 1/5   **35.** 6   **36.** 6 3/4   **37.** 9 1/2   **38.** 6   **39.** 2 1/3

40. 8 3/5

Page 2: Fractions Addition 2

41. 8 2/45   **42.** 11 5/6   **43.** 15 7/18   **44.** 10 2/3   **45.** 8 9/20   **46.** 14 11/18

47. 16   **48.** 15 19/21   **49.** 15 1/3   **50.** 13 1/4   **51.** 7 17/20   **52.** 15 5/12

Page 2: Fractions Addition 3

53. 13   **54.** 5 1/2   **55.** 12 1/5   **56.** 12 2/3   **57.** 12 5/6   **58.** 15 5/12

59. 14 3/10   **60.** 13 5/6   **61.** 15 9/40   **62.** 11 19/20

Page 3: Word Problems - Fractions Addition

63. 2 8/15   **64.** 8 2/5   **65.** 7 5/12   **66.** 3 1/3   **67.** 6 5/12   **68.** 1 1/4   **69.** 3 7/15   **70.** 1/4

71. 4 1/3

Page 4: Fractions Subtraction 1

72. 6 1/2   **73.** 3 2/3   **74.** 7 2/3   **75.** 3 1/2   **76.** 1   **77.** 4 3/4   **78.** 7 3/5   **79.** 3/4

80. 2/3

Page 4: Fractions Subtraction 2

81. 1/3   **82.** 8/9   **83.** 1 1/8   **84.** 2/3   **85.** 3 1/5   **86.** 5/12   **87.** 2/5

88. 2 25/56   **89.** 3 1/3   **90.** 5 19/36   **91.** 1 31/35   **92.** 1/28

Page 4: Fractions Subtraction 3

93. 1/2   **94.** 1 3/5   **95.** 1/2   **96.** 1/2   **97.** 4 1/6   **98.** 3/5   **99.** 2/3

100. 2   **101.** 3 3/4   **102.** 1/3

Page 5: Word Problems - Fractions Subtraction

103. 2 1/8   **104.** 5 1/5   **105.** 1/4   **106.** 6 1/3   **107.** 3   **108.** 2 5/6

109. 2/3   **110.** 3 23/30   **111.** 7 5/8

Page 6:   Number Lines - Fractions

112.

0    $\frac{1}{2}$ 1 $1\frac{1}{2}$ 2

113.

0    $\frac{1}{4}$ 1 $2\frac{1}{4}$ 3 $3\frac{1}{4}$ 4

114.

$\frac{1}{4}$ 1 $2\frac{1}{4}$ 3 $3\frac{1}{4}$ $4\frac{1}{2}$ 5

115.

0    $\frac{1}{2}$ 1   2   3 $3\frac{1}{2}$ 4

116.

0    $1\frac{7}{8}$ 2 $2\frac{3}{8}$ $3\frac{1}{2}$ $4\frac{3}{8}$ 5