

Name: \_\_\_\_\_

Score: \_\_\_\_\_

Adding Fractions: 6 [ A ]



x	equivalent	compare	+/- mixed	adv decimals
imp/mixed	simplify	+/- common	decimals	revision

**Adding Fractions with Common Denominators (horizontally):**

First check the denominators are the same.

Then add or subtract the numerators only. The denominators stay the same.

For example:  $\frac{5}{9} + \frac{2}{9} = \frac{7}{9}$

Change any improper fraction in the answer to a mixed number.

For example:  $\frac{6}{9} + \frac{5}{9} = \frac{11}{9} = 1\frac{2}{9}$

**Add the fractions**

1)  $\frac{2}{5} + \frac{2}{5} =$  \_\_\_\_\_ 6)  $\frac{7}{10} + \frac{2}{10} =$  \_\_\_\_\_ 11)  $\frac{2}{5} + \frac{4}{5} =$  \_\_\_\_\_ 16)  $\frac{3}{5} + \frac{2}{5} =$  \_\_\_\_\_

2)  $\frac{2}{12} + \frac{9}{12} =$  \_\_\_\_\_ 7)  $1 + 1 =$  \_\_\_\_\_ 12)  $4 + 3 =$  \_\_\_\_\_ 17)  $9 + 1 =$  \_\_\_\_\_

3)  $\frac{1}{4} + \frac{2}{4} =$  \_\_\_\_\_

4)  $\frac{4}{8} + \frac{1}{8} =$  \_\_\_\_\_

5)  $\frac{2}{9} + \frac{2}{9} =$  \_\_\_\_\_



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**Equivalent fractions**

21)  $\frac{1}{4} = \frac{3}{12}$

22)  $\frac{3}{8} = \frac{9}{24}$

23)  $\frac{1}{3} = \frac{9}{27}$

26)  $\frac{6}{9} = \frac{18}{27}$

29)  $\frac{3}{4} = \frac{15}{20}$

32)  $\frac{3}{8} = \frac{15}{40}$

**Multiplying fractions by whole numbers**

33)  $\frac{4}{9}$  of 45 = \_\_\_\_\_ 37)  $\frac{1}{2}$  of 16 = \_\_\_\_\_

34)  $\frac{2}{3}$  of 3 = \_\_\_\_\_ 38)  $\frac{1}{2}$  of 38 = \_\_\_\_\_

35)  $\frac{5}{8}$  of 32 = \_\_\_\_\_ 39)  $\frac{1}{6}$  of 42 = \_\_\_\_\_

36)  $\frac{1}{4}$  of 28 = \_\_\_\_\_ 40)  $\frac{2}{8}$  of 16 = \_\_\_\_\_

**Multiplying whole numbers by fractions**

41)  $36 \times \frac{3}{4} =$  \_\_\_\_\_ 45)  $20 \times \frac{5}{10} =$  \_\_\_\_\_

42)  $7 \times \frac{4}{7} =$  \_\_\_\_\_ 46)  $42 \times \frac{5}{7} =$  \_\_\_\_\_

43)  $9 \times \frac{1}{9} =$  \_\_\_\_\_ 47)  $27 \times \frac{2}{9} =$  \_\_\_\_\_

44)  $20 \times \frac{6}{10} =$  \_\_\_\_\_ 48)  $15 \times \frac{3}{5} =$  \_\_\_\_\_

This worksheet is part of the Professor Pete's Classroom eBook "Bring It On! Fraction Worksheets". The recommended teaching sequence is shown in the bar at the top of this sheet.

Name:

Score:

Adding Fractions: 6 [ B ]



x	equivalent	compare	+/- mixed	adv decimals
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**Adding Fractions with Common Denominators (vertically):**

The addition of fractions can also be written horizontally.

For example:

$$\begin{array}{r} \frac{5}{8} \\ + \frac{2}{8} \\ \hline \frac{7}{8} \end{array} \qquad \begin{array}{r} \frac{6}{9} \\ + \frac{7}{9} \\ \hline \frac{13}{9} \quad 1\frac{4}{9} \end{array}$$

**Add the fractions (vertically)**

1) $\frac{5}{10} + \frac{2}{10}$	3) $\frac{2}{6} + \frac{3}{6}$	5) $\frac{1}{12} + \frac{3}{12}$	7) $\frac{7}{12} + \frac{6}{12}$	9) $\frac{6}{8} + \frac{5}{8}$	11) $\frac{4}{10} + \frac{7}{10}$
----------------------------------	--------------------------------	----------------------------------	----------------------------------	--------------------------------	-----------------------------------

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

$\frac{3}{8} + \frac{6}{8}$

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**Add the fractions**

13)  $\frac{6}{10} + \frac{1}{10} =$  \_\_\_\_\_

14)  $\frac{1}{4} + \frac{3}{4} =$  \_\_\_\_\_      $\frac{5}{6} + \frac{5}{6} =$  \_\_\_\_\_      $\frac{12}{12} + \frac{12}{12} =$  \_\_\_\_\_      $\frac{9}{9} + \frac{9}{9} =$  \_\_\_\_\_

15)  $\frac{6}{10} + \frac{7}{10} =$  \_\_\_\_\_     18)  $\frac{1}{4} + \frac{2}{4} =$  \_\_\_\_\_     21)  $\frac{9}{10} + \frac{6}{10} =$  \_\_\_\_\_     24)  $\frac{4}{10} + \frac{5}{10} =$  \_\_\_\_\_

**Equivalent fractions**

25) $\frac{2}{3} = \frac{18}{36}$	28) $\frac{3}{6} = \frac{\quad}{60}$	31) $\frac{1}{3} = \frac{5}{\quad}$	34) $\frac{2}{3} = \frac{8}{12}$
26) $\frac{2}{5} = \frac{8}{20}$	29) $\frac{1}{6} = \frac{\quad}{42}$	32) $\frac{1}{4} = \frac{6}{12}$	35) $\frac{1}{3} = \frac{3}{9}$
27) $\frac{1}{8} = \frac{50}{80}$	30) $\frac{2}{4} = \frac{\quad}{20}$	33) $\frac{4}{6} = \frac{12}{\quad}$	36) $\frac{1}{2} = \frac{10}{\quad}$

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Name: \_\_\_\_\_

Score: \_\_\_\_\_

Adding & Subtracting Fractions: 6 [ C ]



x	equivalent	compare	+/- mixed	adv decimals
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**Subtracting Fractions with Common Denominators (horizontally):**

First check the denominators are the same.  
Then subtract the numerators only. The denominators stay the same.

For example:  $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$

When subtracting, change the mixed number (single one) to an improper fraction where necessary before commencing.

For example:  $1\frac{4}{8} - \frac{7}{8} = \frac{12}{8} - \frac{7}{8} = \frac{5}{8}$

**Subtract the fractions**

1)  $\frac{7}{8} - \frac{5}{8} =$                       6)  $\frac{9}{10} - \frac{5}{10} =$

2)  $\frac{3}{6} - \frac{1}{6}$

3)  $\frac{7}{10} - \frac{5}{10}$

4)  $\frac{9}{10} - \frac{8}{10}$

5)  $\frac{8}{10} - \frac{3}{10}$

**Subtract the fractions (change to improper fractions where necessary)**

11)  $1\frac{2}{8} - \frac{3}{8} =$

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**Multiplying**

16)  $\frac{3}{4}$  of 1

17)  $\frac{3}{8}$  of 16 = \_\_\_\_\_      5 of 40 = \_\_\_\_\_

18)  $\frac{2}{5}$  of 40 = \_\_\_\_\_      21)  $\frac{4}{6}$  of 24 = \_\_\_\_\_

22)  $27 \times \frac{1}{9} =$  \_\_\_\_\_      40  $\times \frac{1}{8} =$  \_\_\_\_\_

24)  $36 \times \frac{4}{6} =$  \_\_\_\_\_      27)  $27 \times \frac{6}{9} =$  \_\_\_\_\_

**Equivalent fractions**

28)  $\frac{5}{6} = \frac{45}{60}$

31)  $\frac{1}{2} = \frac{3}{6}$

34)  $\frac{4}{8} = \frac{1}{2}$

37)  $\frac{1}{4} = \frac{3}{12}$

29)  $\frac{5}{8} = \frac{15}{24}$

32)  $\frac{1}{6} = \frac{2}{12}$

35)  $\frac{2}{5} = \frac{4}{10}$

38)  $\frac{1}{2} = \frac{5}{10}$

30)  $\frac{1}{5} = \frac{2}{10}$

33)  $\frac{1}{2} = \frac{5}{10}$

36)  $\frac{1}{2} = \frac{5}{10}$

39)  $\frac{1}{8} = \frac{2}{16}$

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