



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

Multiplying unit fractions by whole numbers

- | | |
|--------------------------------|----------------------------------|
| 1) $\frac{1}{9}$ of 45 = _____ | 6) $\frac{1}{5}$ of 15 = _____ |
| 2) $\frac{1}{4}$ of 32 = _____ | 7) $\frac{1}{7}$ of 49 = _____ |
| 3) $\frac{1}{9}$ of 27 = _____ | 8) $\frac{1}{8}$ of 48 = _____ |
| 4) $\frac{1}{2}$ of 8 = _____ | 9) $\frac{1}{4}$ of 40 = _____ |
| 5) $\frac{1}{9}$ of 18 = _____ | 10) $\frac{1}{10}$ of 10 = _____ |

Multiplying whole numbers by unit fractions

- | | |
|-------------------------------------|-------------------------------------|
| 31) $21 \times \frac{1}{3} =$ _____ | 36) $36 \times \frac{1}{9} =$ _____ |
| 32) $42 \times \frac{1}{6} =$ _____ | 37) $40 \times \frac{1}{4} =$ _____ |
| 33) $28 \times \frac{1}{7} =$ _____ | 38) $48 \times \frac{1}{8} =$ _____ |
| 34) $42 \times \frac{1}{7} =$ _____ | 39) $24 \times \frac{1}{3} =$ _____ |
| 35) $16 \times \frac{1}{4} =$ _____ | 40) $5 \times \frac{1}{5} =$ _____ |

Multiplying fractions by whole numbers

- 11) $\frac{1}{6}$ of 2
- 12) $\frac{2}{6}$ of 2
- 13) $\frac{1}{9}$ of 5
- 14) $\frac{3}{9}$ of 5
- 15) $\frac{1}{3}$ of 1
- 16) $\frac{2}{3}$ of 1
- 17) $\frac{1}{4}$ of 3

Multiplying whole numbers by fractions

- 41) _____
- 42) _____
- 43) _____
- 44) _____
- 45) _____
- 46) _____
- 47) _____

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- | | |
|---------------------------------|----------------------------------|
| 18) $\frac{3}{4}$ of 32 = _____ | 28) $\frac{5}{6}$ of 30 = _____ |
| 19) $\frac{1}{7}$ of 28 = _____ | 29) $\frac{1}{10}$ of 70 = _____ |
| 20) $\frac{3}{7}$ of 28 = _____ | 30) $\frac{7}{10}$ of 70 = _____ |

- | | |
|-------------------------------------|-------------------------------------|
| 48) $18 \times \frac{4}{6} =$ _____ | 58) $25 \times \frac{3}{5} =$ _____ |
| 49) $36 \times \frac{1}{9} =$ _____ | 59) $32 \times \frac{1}{8} =$ _____ |
| 50) $36 \times \frac{5}{9} =$ _____ | 60) $32 \times \frac{3}{8} =$ _____ |

Revision

- | | | | |
|---------------------|---------------------|-----------------------|----------------------|
| 61) $7 + 8 =$ _____ | 65) $7 + 6 =$ _____ | 69) $4 - 2 =$ _____ | 73) $10 - 0 =$ _____ |
| 62) $7 + 7 =$ _____ | 66) $7 + 3 =$ _____ | 70) $12 - 6 =$ _____ | 74) $15 - 7 =$ _____ |
| 63) $8 + 2 =$ _____ | 67) $6 + 7 =$ _____ | 71) $6 - 3 =$ _____ | 75) $17 - 9 =$ _____ |
| 64) $8 + 6 =$ _____ | 68) $9 + 7 =$ _____ | 72) $20 - 10 =$ _____ | 76) $9 - 5 =$ _____ |

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

Homework

Improper and Mixed Numbers: 2 HW



x	equivalent	compare	+/- mixed	adv decimals
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Converting Mixed Numbers to Improper Fractions:

Remember:

$$2 \frac{3}{5} \quad \frac{5}{5} + \frac{5}{5} + \frac{3}{5} = \frac{13}{5} \quad \text{or} \quad (2 \times \frac{5}{5}) + \frac{3}{5} = \frac{13}{5}$$

Mixed numbers to improper fractions

- | | | | |
|-----------------------------|----------------------------|-----------------------------|------------------------------|
| 1) $3 \frac{2}{4} =$ _____ | 6) $4 = \frac{\quad}{6}$ | 11) $2 \frac{4}{7} =$ _____ | 16) $10 \frac{2}{3} =$ _____ |
| 2) $4 = \frac{\quad}{5}$ | 7) $5 \frac{2}{3} =$ _____ | 12) $2 = \frac{\quad}{2}$ | 17) $7 \frac{6}{10} =$ _____ |
| 3) $3 \frac{7}{8} =$ _____ | 8) $9 = \frac{\quad}{8}$ | 13) $5 \frac{3}{4} =$ _____ | 18) $3 \frac{1}{4} =$ _____ |
| 4) $2 \frac{4}{10} =$ _____ | 9) $3 \frac{1}{1} =$ _____ | 14) $2 \frac{3}{1} =$ _____ | 19) $7 = \frac{\quad}{8}$ |
| 5) $7 \frac{2}{8} =$ _____ | | | |

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Improper fractions

- | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 21) $\frac{14}{6} =$ _____ | | | |
| 22) $\frac{7}{5} =$ _____ | | | |
| 23) $\frac{10}{6} =$ _____ | | | |
| 24) $\frac{15}{5} =$ _____ | 29) $\frac{11}{4} =$ _____ | 34) $\frac{24}{5} =$ _____ | 39) $\frac{16}{4} =$ _____ |
| 25) $\frac{25}{8} =$ _____ | 30) $\frac{10}{4} =$ _____ | 35) $\frac{10}{5} =$ _____ | 40) $\frac{11}{2} =$ _____ |

Revision

- | | | | |
|---------------------|---------------------|----------------------|-----------------------|
| 41) $8 + 7 =$ _____ | 46) $7 + 2 =$ _____ | 51) $5 - 3 =$ _____ | 56) $18 - 10 =$ _____ |
| 42) $6 + 5 =$ _____ | 47) $6 + 3 =$ _____ | 52) $13 - 5 =$ _____ | 57) $7 - 2 =$ _____ |
| 43) $6 + 6 =$ _____ | 48) $8 + 6 =$ _____ | 53) $19 - 9 =$ _____ | 58) $10 - 8 =$ _____ |
| 44) $6 + 8 =$ _____ | 49) $7 + 5 =$ _____ | 54) $18 - 9 =$ _____ | 59) $15 - 8 =$ _____ |
| 45) $9 + 5 =$ _____ | 50) $9 + 7 =$ _____ | 55) $13 - 6 =$ _____ | 60) $15 - 9 =$ _____ |

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Equivalent Fractions:

Equivalent fractions represent the same amount even though they have different numerators and denominators.

For example: $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

To make an equivalent fraction you have to multiply or divide the numerator and denominator by the same number.

$$\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{6}{9} \quad \frac{15}{25} = \frac{15 \div 5}{25 \div 5} = \frac{3}{5}$$

Equivalent Fractions

1) $\frac{\quad}{8} = \frac{30}{80}$

6) $\frac{3}{\quad} = \frac{9}{18}$

11) $\frac{2}{6} = \frac{\quad}{42}$

16) $\frac{\quad}{4} = \frac{18}{24}$

2) $\frac{1}{2} = \frac{\quad}{10}$

7) $\frac{1}{\quad} = \frac{4}{8}$

12) $\frac{\quad}{5} = \frac{27}{45}$

17) $\frac{2}{6} = \frac{4}{\quad}$

3) $\frac{3}{\quad} = \frac{24}{48}$

8) $1 = \frac{\quad}{10}$

13) $3 = \frac{\quad}{9}$

18) $3 = \frac{\quad}{27}$

4) $\frac{\quad}{2} = \frac{8}{16}$

5) $\frac{2}{6} = \frac{14}{\quad}$

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Multiplying

21) $\frac{1}{3}$ of 1 = _____

22) $\frac{2}{3}$ of 1 = _____

23) $\frac{1}{10}$ of 5 = _____

24) $\frac{9}{10}$ of 50 = _____

29) $\frac{1}{5}$ of 35 = _____

34) $24 \times \frac{1}{3} =$ _____

39) $30 \times \frac{1}{6} =$ _____

25) $\frac{1}{5}$ of 40 = _____

30) $\frac{3}{5}$ of 45 = _____

35) $5 \times \frac{4}{5} =$ _____

40) $49 \times \frac{4}{7} =$ _____

Revision

41) $6 + 2 =$ _____

46) $8 + 6 =$ _____

51) $7 - 4 =$ _____

56) $13 - 5 =$ _____

42) $9 + 7 =$ _____

47) $5 + 7 =$ _____

52) $19 - 9 =$ _____

57) $14 - 6 =$ _____

43) $6 + 7 =$ _____

48) $6 + 5 =$ _____

53) $12 - 9 =$ _____

58) $8 - 5 =$ _____

44) $4 + 2 =$ _____

49) $9 + 8 =$ _____

54) $17 - 9 =$ _____

59) $16 - 9 =$ _____

45) $4 + 8 =$ _____

50) $5 + 3 =$ _____

55) $14 - 7 =$ _____

60) $15 - 6 =$ _____

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