

Name: _____

Score: _____

Simplifying Fractions: 4 [A]



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

Simplifying Fractions:

Simplifying a fraction means to make an equivalent fraction which has numbers as small as possible. To do this, find the equivalent fraction with the smallest numbers. This means dividing the numerator and denominator with common factors.

For example: $\frac{3}{9} = \frac{1}{3}$ In some cases a fraction can be simplified even further if you look harder. $\frac{6}{12} = \frac{3}{6} = \frac{1}{2}$

Simplify these fractions

- | | | | |
|----------------------------|----------------------------|-----------------------------|-----------------------------|
| 1) $\frac{3}{9} =$ _____ | 6) $\frac{9}{12} =$ _____ | 11) $\frac{6}{18} =$ _____ | 16) $\frac{15}{18} =$ _____ |
| 2) $\frac{20}{25} =$ _____ | 7) $\frac{12}{30} =$ _____ | 12) $\frac{10}{15} =$ _____ | 17) $\frac{6}{36} =$ _____ |
| 3) $\frac{3}{12} =$ _____ | 8) $\frac{24}{24} =$ _____ | 13) $\frac{3}{3} =$ _____ | 18) $\frac{12}{12} =$ _____ |
| 4) $\frac{10}{12} =$ _____ | | | |
| 5) $\frac{18}{27} =$ _____ | | | |

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Multiplying

- | | | | | | | | |
|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------------|-------------------------------------|
| 21) $\frac{1}{5}$ of 2 = _____ | 22) $\frac{5}{10}$ of 2 = _____ | 23) $\frac{2}{3}$ of 2 = _____ | 24) $\frac{5}{7}$ of 3 = _____ | 25) $\frac{2}{3}$ of 6 = _____ | 30) $\frac{2}{9}$ of 18 = _____ | 35) $15 \times \frac{2}{3} =$ _____ | 40) $18 \times \frac{1}{2} =$ _____ |
|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------------|-------------------------------------|

Revision

- | | | | |
|---------------------|---------------------|-----------------------|-----------------------|
| 41) $4 + 3 =$ _____ | 46) $6 + 4 =$ _____ | 51) $16 - 8 =$ _____ | 56) $13 - 9 =$ _____ |
| 42) $4 + 7 =$ _____ | 47) $5 + 2 =$ _____ | 52) $11 - 3 =$ _____ | 57) $13 - 3 =$ _____ |
| 43) $4 + 9 =$ _____ | 48) $9 + 6 =$ _____ | 53) $5 - 3 =$ _____ | 58) $14 - 6 =$ _____ |
| 44) $9 + 3 =$ _____ | 49) $7 + 6 =$ _____ | 54) $18 - 10 =$ _____ | 59) $4 - 2 =$ _____ |
| 45) $5 + 8 =$ _____ | 50) $6 + 6 =$ _____ | 55) $13 - 7 =$ _____ | 60) $20 - 10 =$ _____ |

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Name: _____

Score: _____

Simplifying Fractions: 4 [B]



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

Simplifying Improper Fractions:

First simplify the improper fraction. This makes the numbers smaller to work with. Then turn the improper fraction into a mixed number.

For example: $\frac{55}{30} \frac{11}{6} = 1 \frac{5}{6}$

Simplify these fractions

- | | | | |
|----------------------------|----------------------------|-----------------------------|-----------------------------|
| 1) $\frac{42}{20} =$ _____ | 7) $\frac{42}{15} =$ _____ | 13) $\frac{36}{32} =$ _____ | 19) $\frac{35}{10} =$ _____ |
| 2) $\frac{20}{12} =$ _____ | 8) $\frac{24}{16} =$ _____ | 14) $\frac{4}{6} =$ _____ | 20) $\frac{6}{18} =$ _____ |
| 3) $\frac{5}{2} =$ _____ | 9) $\frac{15}{6} =$ _____ | 15) $\frac{27}{18} =$ _____ | 21) $\frac{18}{36} =$ _____ |
| 4) $\frac{14}{6} =$ _____ | | | |
| 5) $\frac{60}{30} =$ _____ | | | |
| 6) $\frac{40}{32} =$ _____ | | | |

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Multiplying

- | | | | |
|----------------------------------|---------------------------------|-------------------------------------|-------------------------------------|
| 25) $\frac{5}{7}$ of 3 = _____ | | | |
| 26) $\frac{1}{2}$ of 1 = _____ | | | |
| 27) $\frac{2}{5}$ of 4 = _____ | | | |
| 28) $\frac{4}{10}$ of 10 = _____ | 33) $\frac{3}{4}$ of 32 = _____ | 38) $16 \times \frac{3}{8} =$ _____ | 43) $32 \times \frac{6}{8} =$ _____ |
| 29) $\frac{3}{4}$ of 36 = _____ | 34) $\frac{1}{3}$ of 18 = _____ | 39) $12 \times \frac{2}{3} =$ _____ | 44) $14 \times \frac{3}{7} =$ _____ |

Revision

- | | | | |
|---------------------|---------------------|----------------------|----------------------|
| 45) $8 + 2 =$ _____ | 50) $4 + 8 =$ _____ | 55) $11 - 4 =$ _____ | 60) $10 - 5 =$ _____ |
| 46) $8 + 5 =$ _____ | 51) $6 + 5 =$ _____ | 56) $13 - 8 =$ _____ | 61) $12 - 8 =$ _____ |
| 47) $5 + 3 =$ _____ | 52) $7 + 7 =$ _____ | 57) $4 - 2 =$ _____ | 62) $19 - 9 =$ _____ |
| 48) $5 + 9 =$ _____ | 53) $5 + 8 =$ _____ | 58) $9 - 7 =$ _____ | 63) $7 - 5 =$ _____ |
| 49) $9 + 7 =$ _____ | 54) $4 + 2 =$ _____ | 59) $11 - 5 =$ _____ | 64) $18 - 8 =$ _____ |

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Name: _____

Score: _____

Simplifying Fractions: 4 [C]



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

Simplify these fractions

- | | | | |
|----------------------------|----------------------------|-----------------------------|-----------------------------|
| 1) $\frac{15}{9} =$ _____ | 6) $\frac{55}{40} =$ _____ | 11) $\frac{15}{18} =$ _____ | 16) $\frac{18}{9} =$ _____ |
| 2) $\frac{55}{50} =$ _____ | 7) $\frac{15}{12} =$ _____ | 12) $\frac{10}{25} =$ _____ | 17) $\frac{15}{6} =$ _____ |
| 3) $\frac{28}{12} =$ _____ | 8) $\frac{56}{32} =$ _____ | 13) $\frac{10}{8} =$ _____ | 18) $\frac{18}{12} =$ _____ |
| 4) $\frac{42}{18} =$ _____ | 9) $\frac{24}{30} =$ _____ | 14) $\frac{28}{16} =$ _____ | 19) $\frac{27}{12} =$ _____ |
| 5) $\frac{15}{24} =$ _____ | 10) $\frac{14}{8} =$ _____ | 15) $\frac{30}{15} =$ _____ | 20) $\frac{35}{15} =$ _____ |

Equivalent Fractions

- 21) $\frac{6}{8} = \frac{12}{16}$
- 22) $\frac{1}{6} = \frac{5}{30}$
- 23) $\frac{2}{4} = \frac{12}{24}$
- 24) $\frac{1}{2} = \frac{9}{18}$

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Multiplying Fractions

- | | | | |
|---------------------------------|---------------------------------|--------------------------------------|-------------------------------------|
| 37) $\frac{1}{3}$ of 2 = _____ | 43) $\frac{2}{3}$ of 15 = _____ | 47) $30 \times \frac{2}{10} =$ _____ | 51) $16 \times \frac{5}{8} =$ _____ |
| 38) $\frac{4}{7}$ of 2 = _____ | 44) $\frac{2}{5}$ of 15 = _____ | 48) $40 \times \frac{9}{10} =$ _____ | 52) $45 \times \frac{8}{9} =$ _____ |
| 39) $\frac{1}{5}$ of 30 = _____ | | | |
| 40) $\frac{7}{8}$ of 40 = _____ | | | |

Revision

- | | | | |
|---------------------|---------------------|-----------------------|----------------------|
| 53) $4 + 4 =$ _____ | 57) $8 + 8 =$ _____ | 61) $10 - 1 =$ _____ | 65) $7 - 5 =$ _____ |
| 54) $8 + 5 =$ _____ | 58) $7 + 3 =$ _____ | 62) $19 - 9 =$ _____ | 66) $13 - 9 =$ _____ |
| 55) $4 + 7 =$ _____ | 59) $8 + 9 =$ _____ | 63) $12 - 7 =$ _____ | 67) $11 - 5 =$ _____ |
| 56) $5 + 6 =$ _____ | 60) $4 + 2 =$ _____ | 64) $20 - 10 =$ _____ | 68) $15 - 5 =$ _____ |

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