



% Intro	10%+dis	25%+dis	10% 50% inc	1% 0.5%	Revision
Common to %	50%+dis	100%+	100%+ inc	Adv percent	

Converting Common Fractions to Percent, Percent to Common Fractions:

Converting a common fraction to a percent requires the fraction to have a denominator of 100.

e.g. $\frac{3}{4} = \frac{\quad}{100} = \quad\% \quad$ convert the denominator to hundredths $\frac{3}{4} \times \frac{25}{25} = \frac{75}{100} = 75\%$

When converting percents back to a common fraction, simplify the fraction.

$60\% = \frac{60}{100} = \frac{3}{5}$

Convert these common fractions to percents:

- 1) $\frac{1}{20} = \frac{\quad}{100} = \quad\%$
- 2) $\frac{2}{10} = \frac{\quad}{100} = \quad\%$
- 3) $\frac{1}{5} = \frac{\quad}{100} = \quad\%$
- 4) $\frac{1}{2} = \frac{\quad}{100} = \quad\%$
- 5) $\frac{1}{50} = \frac{\quad}{100} = \quad\%$
- 6) $\frac{5}{10} = \frac{\quad}{100} = \quad\%$
- 7) $\frac{1}{25} = \frac{\quad}{100} = \quad\%$

Convert these percents to simplified common fractions:

- 11) $10\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 12) $20\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 13) $30\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 14) $40\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 15) $50\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 16) $50\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 17) $75\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 18) $80\% = \frac{\quad}{100} = \frac{\quad}{\quad}$
- 19) $90\% = \frac{\quad}{100} = \frac{\quad}{\quad}$

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Adding and subtracting
e.g. with regrouping

1) $12 + 15 =$

2) $18 + 22 =$

3) $25 + 35 =$

4) $32 + 48 =$

5) $45 + 55 =$

6) $52 + 68 =$

7) $63 + 77 =$

8) $74 + 86 =$

9) $85 + 99 =$

10) $96 + 104 =$

Division

1) $9 \frac{1}{4}$

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

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

9) _____

10) _____

Insert <, > or =

- 4) $\frac{1}{6} \quad \frac{1}{3}$
- 5) $\frac{4}{9} \quad \frac{3}{6}$
- 6) $\frac{1}{3} \quad \frac{4}{9}$
- 7) $\frac{4}{6} \quad \frac{4}{9}$
- 8) $\frac{10}{6} \quad \frac{15}{6}$
- 9) $\frac{4}{3} \quad \frac{1}{3}$
- 10) $\frac{3}{5} \quad \frac{4}{3}$
- 11) $1 \frac{4}{6} \quad \frac{11}{6}$

Addition revision

- 12) $9 + 4 =$
- 13) $3 + 9 =$
- 14) $3 + 4 =$
- 15) $8 + 8 =$
- 16) $1 + 4 =$
- 17) $4 + 9 =$
- 18) $7 + 6 =$
- 19) $7 + 7 =$

Subtraction revision

- 20) $13 - 9 =$
- 21) $12 - 6 =$
- 22) $7 - 2 =$
- 23) $13 - 8 =$
- 24) $12 - 5 =$
- 25) $16 - 9 =$
- 26) $18 - 9 =$
- 27) $11 - 3 =$

This worksheet is part of the Professor Pete's Classroom eBook "Bring It On! Percentages Worksheets". The recommended teaching sequence is shown in the bar at the top of this sheet. Have the students record their time taken to complete the page.



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Common to %	50%+dis	100+%	100+% inc	Adv percent	

<p>Convert these common fractions to percents:</p> <p>1) $\frac{3}{20} =$ _____</p> <p>2) $\frac{6}{10} =$ _____</p> <p>3) $\frac{1}{5} =$ _____</p> <p>4) $\frac{1}{2} =$ _____</p> <p>5) $\frac{7}{50} =$ _____</p> <p>6) $\frac{3}{10} =$ _____</p> <p>7) $\frac{2}{25} =$ _____</p> <p>8) $\frac{11}{20} =$ _____</p> <p>9) $\frac{4}{25} =$ _____</p> <p>10) $\frac{3}{4} =$ _____</p>	<p>Convert these percents to simplified common fractions:</p> <p>11) 15 % = _____</p> <p>12) 10 % = _____</p> <p>13) 60 % = _____</p> <p>14) 25 % = _____</p> <p>15) 4 % = _____</p> <p>16) 1 % = _____</p> <p>17) 75 % = _____</p> <p>18) 50 % = _____</p> <p>19) 2 % = _____</p> <p>20) 80 % = _____</p>
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<p>Adding and Subtracting Vertically: e.g. with regrouping</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Add the fractions</p> <p>_____</p> <p>_____</p> <p>_____</p>
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<p>Subtract the fractions with regrouping</p> <p>4) $5\frac{1}{3}$</p> <p>— $2\frac{2}{3}$</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p>
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Insert <, > or =

10) $\frac{1}{6}$ ___ $\frac{2}{3}$	13) $\frac{1}{3}$ ___ $\frac{8}{9}$	16) $\frac{6}{4}$ ___ $\frac{15}{6}$	19) $3\frac{1}{4}$ ___ $\frac{14}{4}$
11) $1\frac{6}{9}$ ___ $\frac{15}{9}$	14) $\frac{8}{3}$ ___ $2\frac{1}{3}$	17) $\frac{2}{3}$ ___ $\frac{5}{4}$	20) $\frac{1}{6}$ ___ $\frac{3}{6}$
12) $\frac{8}{12}$ ___ $\frac{7}{9}$	15) $\frac{3}{6}$ ___ $\frac{4}{12}$	18) $\frac{6}{4}$ ___ $\frac{6}{5}$	21) $\frac{8}{3}$ ___ $\frac{11}{5}$

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Convert these common fractions to percents:

1) $\frac{15}{20} =$ _____ 6) $\frac{4}{10} =$ _____

2) $\frac{3}{20} =$ _____ 7) $\frac{5}{25} =$ _____

3) $\frac{2}{5} =$ _____ 8) $\frac{5}{20} =$ _____

4) $\frac{7}{20} =$ _____ 9) $\frac{2}{25} =$ _____

5) $\frac{3}{50} =$ _____ 10) $\frac{5}{5} =$ _____

Convert these percents to simplified common fractions:

11) 20% = _____ 16) 4% = _____

12) 25% = _____ 17) 50% = _____

13) 75% = _____ 18) 10% = _____

14) 5% = _____ 19) 1% = _____

15) 2% = _____ 20) 60% = _____

Subtract the fractions (change to improper fractions w/

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

Add the fractions

$4\frac{6}{8} + 2\frac{7}{8} =$ _____

Insert <, > or =

7) $\frac{7}{9}$ _____ $\frac{3}{12}$

8) $3\frac{4}{8}$ _____

9) $\frac{4}{6}$ _____ $\frac{3}{12}$

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12) $\frac{1}{9}$ _____ $\frac{5}{6}$ 10) $\frac{2}{4}$ _____ $\frac{10}{6}$ 10) $\frac{1}{3}$ _____ $\frac{5}{9}$

Equivalent fractions

19) $\frac{7}{8} = \frac{\quad}{48} = \frac{\quad}{16}$ 21) $\frac{2}{8} = \frac{\quad}{72} = \frac{\quad}{32}$ 23) $\frac{3}{4} = \frac{21}{\quad} = \frac{\quad}{20}$ 25) $\frac{2}{6} = \frac{4}{\quad} = \frac{\quad}{36}$

20) $\frac{2}{4} = \frac{\quad}{20} = \frac{8}{\quad}$ 22) $\frac{4}{5} = \frac{20}{\quad} = \frac{8}{\quad}$ 24) $\frac{2}{4} = \frac{\quad}{24} = \frac{10}{\quad}$ 26) $\frac{2}{3} = \frac{\quad}{6} = \frac{\quad}{12}$

Revision: Multiply fractions by whole numbers

27) $\frac{1}{2}$ of 16 = _____ 29) $\frac{1}{3}$ of 45 = _____

28) $\frac{3}{9}$ of 9 = _____ 30) $\frac{3}{7}$ of 42 = _____

Multiply whole numbers by fractions

31) $16 \times \frac{3}{4} =$ _____ 33) $40 \times \frac{4}{10} =$ _____

32) $7 \times \frac{2}{7} =$ _____ 34) $48 \times \frac{3}{6} =$ _____

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