As outcomes, Year 5 pupils should, for example:	
Use, read and write, spelling correctly: fraction, proper/improper fraction, mixed number numerator, denominator half, quarter, eighth; third, sixth, ninth, twelfth; fifth, tenth, twentieth, hundredth equivalent, reduced to, cancel	As outcomes, Year 6 pupils should, for example: Use, read and write, spelling correctly, the vocabulary from the previous year, and extend to: <i>thousandth</i>
Convert improper fractions to mixed numbers, and vice versa: for example, change <sup>37</sup> / <sub>10</sub> to 37/ <sub>10</sub> . Recognise from practical work simple relationships between fractions. For example: • one quarter is half of one half; • one eighth is half of one quarter; • one sixth is half of one third; • one tenth is half of one fifth; • one twentieth is half of one tenth.	<ul> <li>Continue to convert improper fractions to mixed numbers, and vice versa: for example, <sup>49</sup>/<sub>8</sub> to 61/<sub>8</sub>.</li> <li>Recognise from practical work simple relationships between fractions. For example: <ul> <li>one half is twice as much as one quarter, and three times as much as one sixth;</li> <li>one quarter is twice as much as one eighth;</li> <li>one tenth is ten times as much as one hundredth.</li> </ul> </li> <li>Recognise that: <ul> <li>a fraction such as <sup>5</sup>/<sub>20</sub> can be reduced to an equivalent fraction <sup>1</sup>/<sub>4</sub> by dividing both numerator and denominator by the same number (cancel);</li> <li>a fraction such as <sup>3</sup>/<sub>10</sub> can be changed to an equivalent fraction <sup>30</sup>/<sub>100</sub> by multiplying both numerator and denominator by the same number.</li> </ul> </li> </ul>
Recognise patterns in equivalent fractions, such as: $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14} \dots$ $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21} \dots$ and similar patterns for $\frac{1}{4}$ , $\frac{1}{5}$ and $\frac{1}{10}$ . Start to recognise that: • $\frac{10}{100}$ is equivalent to $\frac{1}{10}$ ; • $\frac{20}{100}$ is equivalent to $\frac{2}{10}$ ; • $\frac{50}{100}$ is equivalent to $\frac{5}{10}$ or $\frac{1}{2}$ ; • $\frac{25}{100}$ is equivalent to $\frac{1}{4}$ ; • $\frac{75}{100}$ is equivalent to $\frac{3}{4}$ .	Recognise equivalent fractions, such as: $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14} = \frac{8}{16} = \frac{9}{18} = \frac{10}{20} \dots$ $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21} = \frac{8}{24} = \frac{9}{27} = \frac{10}{30} \dots$ and similar patterns for other unit fractions, relating them to ratios: 1 in every 7, 2 in every 14, and so on. Answer questions such as: • Write four more fractions equivalent to: $\frac{4}{5}\dots \qquad \frac{11}{10}\dots$ • Copy and complete: $\frac{1}{10} = \frac{20}{100} \qquad \frac{6}{21} = \frac{2}{10}$
<ul> <li>Recognise from practical work that, for example:</li> <li>one quarter is more than one eighth;</li> <li>one third is more than one ninth;</li> <li>two thirds is less than three quarters.</li> </ul> Make a line to 6 showing wholes, thirds, sixths and twelfths.	<ul><li>Compare or order simple fractions by converting them to a common denominator. For example:</li><li>Suggest a fraction that is greater than one quarter and less than one third.</li></ul>
<ul> <li>Answer questions such as:</li> <li>Which of these fractions are less than one half? <sup>1</sup>/<sub>10</sub>, <sup>1</sup>/<sub>20</sub>, <sup>2</sup>/<sub>5</sub>, <sup>7</sup>/<sub>10</sub>, <sup>11</sup>/<sub>20</sub>, <sup>69</sup>/<sub>100</sub></li> </ul>	<ul> <li>Answer questions such as:</li> <li>Mark each of these fractions on a line from 0 to 1 with 30 marked divisions: 3/10, 1/3, 2/5, 1/2, 2/3, 7/10, 4/5, 5/6.</li> </ul>
<ul> <li>Mark each of these fractions on a line from 0 to 1 with 20 marked divisions: <sup>3</sup>/<sub>10</sub>, <sup>3</sup>/<sub>4</sub>, <sup>2</sup>/<sub>5</sub>, <sup>1</sup>/<sub>2</sub>, <sup>7</sup>/<sub>10</sub>, <sup>4</sup>/<sub>5</sub>, <sup>13</sup>/<sub>20</sub>. Which is the smallest? Which is the largest?</li> <li>Place these in order, smallest first: <sup>1</sup>/<sub>2</sub>, <sup>1</sup>/<sub>2</sub>, <sup>2</sup>, <sup>1</sup>/<sub>4</sub>, <sup>13</sup>/<sub>4</sub>.</li> </ul>	<ul> <li>Which is the smallest? Which is the largest?</li> <li>Place these in order, smallest first: 2<sup>1</sup>/<sub>10</sub>, 1<sup>3</sup>/<sub>10</sub>, 2<sup>1</sup>/<sub>2</sub>, 1<sup>1</sup>/<sub>5</sub>, 1<sup>3</sup>/<sub>4</sub>.</li> <li>What number is half way between: 5<sup>1</sup>/<sub>4</sub> and 5<sup>1</sup>/<sub>2</sub>; 5<sup>1</sup>/<sub>3</sub> and 5<sup>2</sup>/<sub>3</sub>?</li> </ul>

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