


Y7	UNIT 10 <i>Fractions</i> Lesson Plan 1	<i>Fractions 1</i>
Activity 1	<p>Introduction to fractions OS 10.1</p> <p>T: Twins, Jim and John, are celebrating their 18th birthday. Their mother cuts their square-shaped birthday cake into four slices of equal size, so that each of the four members of the family has one quarter of the cake. The men in the family have 3 quarters of the cake. We can write it like this (T on BB, Ps in Ex.Bs):</p> <p style="margin-left: 40px;">3 ← NUMERATOR — ← FRACTION LINE 4 ← DENOMINATOR</p> <p>T: The numerator shows us how many of the equal parts we are referring to; the denominator shows how many equal parts make up the whole number.</p> <p>T: Now look at (b) on the OS. What fraction of the shape has been shaded? $(\frac{3}{8})$</p> <p style="margin-left: 40px;">And what are the words we use to describe the 3 and the 8 ? (<i>numerator and denominator</i>)</p> <p style="text-align: right;">7 mins</p>	<p style="text-align: center;">Notes</p> <p>Whole class activity (definition). Slide appears on OHP and each P has a copy. Look at (a) on OS. T stresses that we can use the word 'quarter' only if we divide the whole into four equal parts.</p> <p>Then T tells Ps the names of the parts of a fraction, and explains them.</p> <p>Ps count, volunteer and answer. Agreement. Praising. Ps write the fraction next to the figure on their copy of OS 10.1.</p> <p>Then T gets Ps to practice what they have learned, using (c), (d), (e) and (f) in a similar way.</p>
2	<p>Shading fractions of diagrams OS 10.2</p> <p style="text-align: right;">13 mins</p>	<p>Individual work.</p> <p>Each P has a copy of OS 10.2 and works on it. T and Ps discuss the first example, and then Ps work, T monitors and helps.</p> <p>Checking on OHP. T points to P, P comes to OHP, shades in fraction and explains clearly. Agreement, feedback, self-correction. Praising.</p>
3	<p>Fractions on a line</p> <p>T: Use your ruler to draw 3 number lines, each of length at least 5 cm, one under the other.</p> <p style="margin-left: 40px;">Starting from zero on the left hand side, mark off 4 cm on each of the lines. Here 4 cm will be a 'unit' length.</p> <p style="margin-left: 40px;">Counting from zero, make a mark 3 quarters of a unit length along the first line. How far is this? (3 cm)</p> <p>T: On the second line, make a mark 4 quarters of a unit length along, and on the third line, make a mark at the point 5 quarters of a unit length along the line.</p> <p>T: Compare the fractions $\frac{3}{4}$, $\frac{4}{4}$, $\frac{5}{4}$ with the unit. Compare the numerator and denominator of each fraction. What can you say?</p> <p style="text-align: right;">19 mins</p>	<p>Whole class activity.</p> <p>T dictates what to do, monitors, and does the same on BB.</p> <p>Then T calls Ps to BB to draw the marks on the lines; other Ps in Ex.Bs.</p> <p>Agreement. Praising.</p> <p>After comparing the fractions, T leads Ps to see that a fraction can be smaller than, equal to or larger than 1, and introduces improper fractions. (T dictates, Ps write in Ex.Bs.)</p>

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Activity 7	<p>Summarising</p> <p>P₂ at BB: $\frac{17}{8} = 2\frac{1}{8}$</p> <p>T: What are the names given to the parts of a fraction? What do they show? What type of fraction is $\frac{17}{8}$? What can we do with this type of fraction? What name do we give to the other form of these fractions?</p> <p style="text-align: right;">45 mins</p>	<p>Notes</p> <p>Summarising the work done in the lesson.</p> <p>After P₂ has written the mixed fraction on BB, T asks P₂ to name and explain the terms encountered during the lesson (numerator, denominator, fraction line, improper fraction, mixed number). T asks, P₂ answers, T may help.</p> <p>Agreement. Praising.</p>
<p>A</p> <p>B</p>	<p>Set homework</p> <p>PB 10.1, Q1 (a), (b), (c)</p> <p>PB 10.4, Q1 (a), (f)</p> <p>PB 10.1, Q2 (a), (e)</p> <p>PB 10.1, Q4 (a), (b)</p> <p>PB 10.4, Q2 (a), (c)</p>	

Y7	UNIT 10 Fractions Lesson Plan 2	Fractions 2
Activity		Notes
1 1A 1B	Checking homework PB 10.1, Q1 (a) $\frac{8}{9}$, (b) $\frac{3}{8}$, (c) $\frac{1}{6}$ PB 10.4, Q1 (a) e.g. $\frac{3}{2}$ and $1\frac{1}{2}$, (f) e.g. $3\frac{1}{4}$ and $\frac{13}{4}$ PB 10.1, Q2 (a), (e) PB 10.1, Q4 (a), (b) PB 10.4, Q2 (a), (c) <div style="text-align: right;">5 mins</div>	Oral checking. T asks, Ps answer. Agreement, feedback, self-correction. Praising. This part of checking can appear on OHP. Self-correction. Praising. Solutions appear on OHP. Feedback, self-correction. Praising.
2	Mental work On separate diagrams, shade the stated fractions of this shape $\frac{5}{1}$, $2\frac{1}{4}$, $\frac{4}{3}$  T: - What type of numbers are on the BB? - Name the parts of the first fraction. - Which of these fractions is less than 1 ? - How can you tell that the third fraction is larger than 1 ? What is the name given to this type of fraction? Can it be written as a mixed number? <div style="text-align: right;">12 mins</div>	Mental work. T writes the numbers and draws the empty shape on BB. T makes Ps repeat what they learnt from the previous lesson. Ps answer the questions, then dictate to T how to divide and shade the shape. Then they explain the other forms of the second and third fractions.
3	Questions for individual work T: Let's see how you get on with these questions on fractions. Look at the statements on the OHP. Decide which of them are true and which are false, and then correct the false ones. <div style="border: 1px solid black; padding: 10px;"> <p>(a) The numerator of a (positive) fraction smaller than 1 is always smaller than the denominator. <i>(True)</i></p> <p>(b) The denominator of a fraction larger than 1 is always smaller than the numerator. <i>(True)</i></p> <p>(c) The numerator of a fraction equal to 1 is twice as large as the denominator. <i>(False)</i></p> <p>(d) For a fraction equal to or larger than 1, the numerator can be larger than the denominator. <i>(True)</i></p> </div> <div style="text-align: right;">20 mins</div>	Individual work. The statements appear on OHP. Ps work in Ex.Bs, T monitors. When checking (a) and (b), T can ask Ps for some examples. For (c), Ps have to correct the statement by crossing out the word 'twice'. For (d), T asks Ps to explain the meaning of 'at least', and makes Ps stress that it allows for the fraction to be either equal to or larger than 1. The words 'can be' are used, so the statement is true. Agreement. Feedback. Self-correction. Praising.
4A	Converting improper fractions to mixed numbers T: Let's see how to convert improper fractions to mixed numbers without using diagrams PB 10.4, Q4 (c), (d), (e), (j) T e.g: For question 10.4, Q4 (c), is $\frac{5}{3}$ larger than 1 ? <i>(Yes)</i> And how many thirds are there in 1 ? <i>(Three, since $1 = \frac{3}{3}$)</i> If 3 of the 5 thirds make 1 whole unit, how do we write $\frac{5}{3}$ as a mixed number? <i>($\frac{5}{3} = 1\frac{2}{3}$)</i> <i>(continued)</i>	Whole class activity. For (c) and (d), T asks questions, Ps answer, leading to Ps understanding the process of converting improper fractions into mixed numbers.

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 2	<i>Fractions 2</i>
<i>Activity</i>	<p>Set homework</p> <p>PB 10.4, Q4 (a), (g), (m)</p> <p>PB 10.4, Q5 (f), (h), (o)</p> <p>PB 10.1, Q9</p>	<i>Notes</i>

Y7	UNIT 10 Fractions Lesson Plan 3	<i>Equivalent Fractions</i>
Activity		Notes
1	<p>Checking homework</p> <p>PB 10.4, Q4 (a) $4\frac{1}{2}$, (g) $1\frac{2}{9}$, (m) $1\frac{6}{7}$</p> <p>PB 10.4, Q5 (f) $\frac{17}{3}$, (h) $\frac{22}{5}$, (o) $\frac{39}{8}$</p> <p>PB 10.1, Q9 (a) $\frac{17}{20}$, (b) $\frac{3}{20}$</p> <p style="text-align: right;">3 mins</p>	<p>T has already asked one of Ps to write answers on BB as soon as P arrives.</p> <p>Agreement (or not). Feedback, self-correction. Praising.</p>
2	<p>Fractions on number lines OS 10.3</p> <p>T: Do you think there are equal fractions in these number lines? We'll see</p> <p style="text-align: right;">8 mins</p>	<p>Mental work. Task appears on OHP. T asks, Ps answer, dictating what T should write in boxes. Ps also talk about conversions. Agreement. Praising</p>
3	<p>Equal fractions OS 10.4 (with equals signs removed)</p> <p>T: Look at the different forms of these equal fractions. What do you notice?</p> <p>Ps: If the denominator is twice or four times greater, then the numerator will also be that much greater.</p> <p>T: That's right. Is this always true? We'll look at it another time, but now, let's move on to the next task.</p> <p style="text-align: right;">15 mins</p>	<p>Whole class activity. Each P has a copy of OS 10.4 (with = signs removed) and it appears on OHP. T points to P, P comes to OHP and shades. Other Ps work on their sheets. With T's help, Ps realise the equalities, and can then insert the equals signs.</p> <p>Agreement. Praising.</p>
4	<p>Finding equivalent fractions PB 10.2, Q3</p> <p>T (writes on BB): $\frac{3}{5} = \frac{6}{10} = \frac{12}{20}$</p> <p>T: Is our previous conclusion true here?</p> <p>Ps: Yes!</p> <p>T: We'll look at some more examples.</p> <p style="text-align: right;">18 mins</p>	<p>Individual work. Oral checking. Agreement, feedback, self-correction. Praising. Then T writes the solution on BB.</p>
5A	<p>Division of fractions into smaller parts OS 10.6</p> <p>T: We'll look at the third and the last of the number lines. Any fraction can be divided into smaller parts. If we divide the quarters of a unit into three equal parts, we'll get twelfth parts</p> <p>$(3 \times 4 = 12)$, so $\frac{1}{4} = \frac{3}{12}$. This is why our conclusion is correct.</p>	<p>Teacher explains. Each pair of Ps has a copy of OS 10.6, and follows T's reasoning on it.</p>

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 3	<i>Equivalent Fractions</i>
<p>Activity</p> <p>5B</p>	<p>Further practice</p> <p>T: Before we write down the rule, we'll use the OS to check it. Find and write down equivalent fractions to each of the following:</p> <p>(a) $\frac{1}{4}$ (b) $\frac{1}{3}$ (c) $\frac{8}{16}$ (d) $\frac{3}{4}$</p> <p>T (writes on BB):</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>(a) $\frac{1}{4} = \frac{3}{12} = \frac{2}{8} = \frac{4}{16}$</p> <p>(b) $\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$</p> <p>(c) $\frac{8}{16} = \frac{1}{2} = \frac{2}{4} = \frac{4}{8} = \frac{3}{6} = \frac{6}{12}$</p> <p>(d) $\frac{3}{4} = \frac{6}{8} = \frac{12}{16} = \frac{9}{12}$</p> </div> <p>5C</p> <p>Whole class activity</p> <p>T: And now, fill in the gaps and then check your answers using the number lines.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>(a) $\frac{1}{6} = \frac{\quad}{12}$ (b) $\frac{6}{16} = \frac{\quad}{8}$</p> <p>(c) $\frac{5}{8} = \frac{10}{\quad}$ (d) $\frac{10}{12} = \frac{5}{\quad}$</p> <p>(e) $\frac{2}{3} = \frac{4}{\quad} = \frac{\quad}{12}$</p> </div>	<p>Notes</p> <p>Whole class activity.</p> <p>T writes the fractions (a) to (d) on BB; Ps look at the number lines and call out the equivalent fractions. T writes them on BB, Ps in Ex.Bs. Agreement. Praising.</p> <p>Then T encourages Ps to state the rule (<i>the value of a fraction remains the same if we multiply or divide both its numerator and denominator by the same (non-zero) number.</i>)</p> <p>Whole class activity.</p> <p>Task appears on BB or OHP. T points to a P who gives the solution; T writes on BB (or OHP) and class check it on number lines.</p> <p>Agreement (or not, leading to correction). Ps write in Ex.Bs. Praising.</p>
6	<p style="text-align: right;">28 mins</p> <p>Individual work</p> <p>PB 10.2, Q5 (a) $\frac{3}{4} = \frac{6}{8}$, (d) $\frac{3}{4} = \frac{9}{12}$, (j) $\frac{3}{4} = \frac{15}{20}$, (l) $\frac{5}{7} = \frac{15}{21}$</p> <p>PB 10.2, Q7 (a) $\frac{15}{30} = \frac{1}{2}$, (b) $\frac{6}{9} = \frac{2}{3}$, (f) $\frac{16}{40} = \frac{2}{5}$ (k) $\frac{144}{200} = \frac{18}{25}$</p> <p style="text-align: right;">34 mins</p>	<p>Individual work, monitored, helped. Oral checking. Reasoning.</p> <p>Agreement, feedback, self-correction. Praising.</p>
<p>7A</p> <p>(continued)</p>	<p>Relative sizes of fractions</p> <p>T: Write the fractions in each set in increasing order of size.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>1. $\frac{2}{3}$; $1\frac{1}{3}$; $-\frac{1}{3}$; $\frac{4}{3}$, $\frac{7}{3}$</p> <p>2. PB 10.2, Q8 (a)</p> <p>3. $\frac{2}{3}$; $\frac{5}{6}$; $\frac{7}{6}$; $1\frac{1}{3}$, $\frac{4}{6}$</p> <p>4. PB 10.2, Q8 (d)</p> </div> <p>$-\frac{1}{3}, \frac{2}{3}, \frac{4}{3}$ and $1\frac{1}{3}, \frac{7}{3}$</p> <p>$\frac{1}{10}, \frac{1}{9}, \frac{1}{7}, \frac{1}{4}, \frac{1}{3}$</p> <p>$\frac{2}{3}$ and $\frac{4}{6}, \frac{5}{6}, \frac{7}{6}, 1\frac{1}{3}$</p> <p>$\frac{2}{7}, \frac{2}{5}, \frac{3}{7}, \frac{3}{5}, \frac{5}{7}$</p>	<p>Whole class activity.</p> <p>T and Ps discuss each problem. For set 1., they need to make a conversion, then state that, <i>for fractions with the same denominator, the one with the largest numerator is the largest.</i></p> <p>For set 2., they have to state that <i>a fraction with a smaller denominator is larger than another fraction if the numerators are equal.</i></p> <p>For 3. and 4., T has to remind Ps of the lowest common multiple (see Unit 7, Lesson Plan 1).</p>

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 4	<i>Fractions of Quantities</i>
Activity		Notes
1	<p>Checking homework</p> <p>PB 10.2, Q2</p> <p>PB 10.2, Q4 (b) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15}$ (c) $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$</p> <p>PB 10.2, Q5 (b) $\frac{2}{5} = \frac{4}{10}$ (e) $\frac{2}{5} = \frac{6}{15}$ (i) $\frac{2}{3} = \frac{8}{12}$</p> <p>PB 10.2, Q7 (c) $\frac{9}{12} = \frac{3}{4}$ (e) $\frac{8}{18} = \frac{4}{9}$ (j) $\frac{17}{51} = \frac{1}{3}$</p> <p>PB 10.2, Q6 (i) In order to compare these fractions they both have to be converted. The common denominator is 35. Since $\frac{5}{7} = \frac{25}{35}$ and $\frac{3}{5} = \frac{21}{35}$, $\frac{5}{7} > \frac{3}{5}$.</p> <p>PB 10.2, Q6 (k) In order to compare these fractions they both have to be converted. The common denominator is 21. Since $\frac{2}{3} = \frac{14}{21}$ and $\frac{5}{7} = \frac{15}{21}$, $\frac{2}{3} < \frac{5}{7}$.</p> <p style="text-align: right;">6 mins</p>	<p>Oral checking, repeating points learned in the previous lesson.</p> <p>T points to P. P answers. Agreement, feedback, self-correction. Praising.</p> <p>Solutions to these two tasks can be shown on BB by a (stronger?) P.</p>
2	<p>Activity 10.3 (game)</p> <p style="text-align: right;">16 mins</p>	<p>Games like this, as well as mental work, are often a good way to start a lesson.</p> <p>If the teams (rows) are of equal numbers and abilities, Variation 1 will be suitable. Otherwise, Variation 2 will probably be better. Praising</p>
3	<p>Whole class activity</p> <p>T: What are fractions? For example, what is meant by $\frac{2}{3}$?</p> <p>P: It means that, when the unit is divided into 3 equal parts, we have two of the three.</p> <p>T: Now listed carefully and do what I say:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>Use your ruler to draw a straight line of length 4.5 cm. This is the unit. Label it 1 (unit). Now, under this line, draw another straight line, this time of length 9 cm. How many units is this? (2)</p> <p>Label it 2.</p> <p>Divide each of the lines into 3 parts of equal length.</p> <p>Make a mark at $\frac{2}{3}$ of the unit line and $\frac{1}{3}$ of the 2-unit line.</p> <p>Compare them. What can we say about them?</p> </div> <p>T: Don't forget that the fraction $\frac{2}{3}$ can also mean that we have divided two units into three equal parts, and are referring to one of those parts.</p> <p style="text-align: right;">22 mins</p>	<p>Whole class activity. T makes Ps repeat the definition of the parts of a fraction.</p> <p>Agreement. Praising.</p> <p>Guided work. T dictates instructions slowly and methodically, while doing the same on BB.</p> <p>Ps answer, try to state.</p>

Y7	UNIT 10 Fractions Lesson Plan 4	<i>Fractions of Quantities</i>
Activity		Notes
<p>4A</p> <p>Finding fractions of numbers PB 10.3, Q1 (c)</p> <p>e.g. T (Q1 (c)): How can we find $\frac{1}{5}$ of 15 ?</p> <p>Ps: We have to divide 15 by 5, which gives the answer 3.</p> <p>T: Right. Don't forget what we learnt earlier, that we can write it in different ways:</p> $\frac{1}{5} \text{ of } 15 = 15 \div 5 = \frac{15}{5} = 3$ <p>4B</p> <p>PB 10.3, Q1 (all the other parts)</p>	<p>28 mins</p>	<p>Whole class activity. The first one is guided by T, the other can be explained by Ps.</p> <p>Praising.</p> <p>T writes on BB, Ps in Ex.Bs.</p> <p>Mental work. T points to P, P answers (quick-fire). Agreement. Praising.</p>
<p>5A</p> <p>Further practice with fractions of numbers PB 10.3, Q2 (a), (c), (g), (h)</p> <p>T: Who can explain to us how to find $\frac{3}{4}$ of 24 ?</p> <p>P (at BB): $\frac{1}{4}$ of 24 = $24 \div 4 = \frac{24}{4} = 6$</p> $\frac{3}{4} \text{ of } 24 = 3 \times 6 = 18$ <p>(and so on)</p> <p>5B</p> <p>Questions involving fractions PB 10.3, Q2 (b), (d), (i)</p>	<p>34 mins</p>	<p>Whole class activity. The first question can be answered by a stronger P at BB; subsequent ones can be answered by slower Ps at BB, with help if necessary.</p> <p>Agreement. Praising.</p> <p>Individual work, monitored, helped. Oral checking. Agreement, feedback, self-correction. Praising.</p>
<p>6</p> <p>Questions in context PB 10.3, Q3 and Q5</p>	<p>40 mins</p>	<p>Mental work. T reads out text slowly. Ps volunteer, T waits for slower Ps (may ask questions to help them). Then T points to P, P explains and answers with a whole sentence (T may help). Agreement, feedback. Praising.</p>
<p>7</p> <p>Another question in context PB 10.3, Q6 (b)</p> <p>P₁ at BB: $\frac{1}{10}$ of 510 = 51</p> $\frac{3}{10} \text{ of } 510 = 3 \times 51 = 153$ <p>So 510 – 153 = 357 pupils have no pets.</p> <p>T: Has anyone done this by a different method? Was it shorter? Have you got the same answer? Come to the BB and show us your solution.</p> <p>(continued)</p>		<p>Individual work, monitored, helped. Checking at BB.</p> <p>Agreement. Praising. Then T asks if anyone found a shorter method.</p>

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 4	<i>Fractions of Quantities</i>
<i>Activity</i>		<i>Notes</i>
7 <i>(continued)</i>	<p>P₂ at BB: $\frac{1}{10}$ of 510 = 51.</p> <p>We need $\frac{7}{10}$ of 510, so $7 \times 51 = 357$, and we didn't have to make a subtraction.</p> <p>T: Who chose this method? Who chose the other?</p> <p style="text-align: right;">45 mins</p>	<p style="text-align: center;"><i>Notes</i></p> <p>Agreement, feedback, self-correction. Praising.</p>
Extra	<p>Quick question at 45 mins:</p> <p>T: Find $\frac{1}{3}$ of 2. ($\frac{2}{3}$)</p> <p>Find $\frac{1}{5}$ of 7. ($\frac{7}{5}$)</p> <p style="text-align: right;">45 mins</p>	<p>If no-one can answer, this can be extra homework.</p>
	<p>Set homework</p> <p>PB 10.2, Q9 (a) (h)</p> <p>PB 10.3, Q2 (e), (f), (j)</p> <p>PB 10.3, Q7</p> <p>PB 10.3, Q8</p>	

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 5	<i>Practising Fractions</i>
Activity 3C <i>(continued)</i>	<div>32 mins</div>	Notes have finished, T divides BB into 3 parts and calls 3 Ps out to write down the solutions. Agreement (or not). Discussion. Feedback, self-correction. Praising.
4	<p>Extra tasks for stronger Ps</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>A) A rectangle has a side of length 8.4 cm. The other side is $\frac{3}{4}$ of this length. Calculate the perimeter and area of the rectangle.</p> <p>B) One of the interior angles of a triangle is $\frac{4}{9}$ of the sum of the interior angles; another of the angles is $\frac{1}{4}$ the size of this one. (a) Does the triangle contain an obtuse angle? (b) What is the name given to this type of triangle?</p> </div> <p>P₁ (at BB):</p> <p>A) $a = 8.4$ cm</p> $b = \frac{3}{4} \times a$ $\frac{1}{4} \text{ of } 8.4 = 2.1$ $\frac{3}{4} \text{ of } 8.4 = 6.3$ $P = (a + b) \times 2$ $= (8.4 + 6.3) \times 2$ $= 29.4 \text{ cm}$ $A = a \times b$ $= (8.4 \times 6.3) \text{ cm}^2$ $= 52.92 \text{ cm}^2$ <p>P₂ (at BB):</p> <p>B) The sum of the interior angles of a triangle is 180°.</p> <p>So $a = \frac{4}{9}$ of $180^\circ = 80^\circ$</p> $b = \frac{1}{4} \text{ of } 80^\circ = 20^\circ$ $c = 180^\circ - (a + b) = 80^\circ$ <p>(a) The triangle has no obtuse angle. (b) This is an isosceles triangle.</p> <div>45 mins</div>	<p>T realises that stronger Ps might become bored with pace necessary for slower ones, so gives them copies of extra questions to work on individually.</p> <p>T reviews problems in earlier work with slower Ps, using exercises from PB.</p> <p>Feedback. Praising.</p> <p>Feedback. Praising.</p>

Y7	UNIT 10 <i>Fractions</i> Lesson Plan 5	<i>Practising Fractions</i>
<i>Activity</i>	Set homework M10.4, Q1-5 PB 10.4, Q10	<i>Notes</i>