

# UNIT 9 *Fractions and Percentages* Lesson Plans

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*These are based on 45/50 minute lessons.*

<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>1.</b>	<b>Addition of Fractions</b>	
	Introduction - interactive	OS 9.1
	Exercises	PB 9.1, Q1 (a), (b), (c)
	Review answers	
	Exercises	PB 9.1, Q2 (a), (b), (c)
	Review answers	
	Exercises	PB 9.1, Q3 (a), (b), (C)
	Review answers	
	Set homework	PB 9.1, complete Q2
<b>2.</b>	<b>Subtraction of Fractions</b>	
	Discuss homework	
	Introduction - interactive	OS 9.2
	Exercises	PB 9.1, Q1 (g), (h), (i)
	Review answers	
	Exercises	PB 9.1, Q4 (a), (b), (c)
	Review answers	
	Set homework	PB 9.1, complete Q4
<b>3.</b>	<b>Multiplication of Fractions</b>	
	Discuss homework	
	Introduction - fractions of quantities	OS 9.3
	Exercises	PB 9.1, Q5 (a), (b), (c), (d)
	Review answers	
	Introduction - multiplying fractions	OS 9.3
	Exercises	PB 9.1, Q6 (a), (b), (c)
	Review answers	
	Set homework	PB 9.1, complete Q5 or Q6
<b>4.</b>	<b>Division of Fractions</b>	
	Discuss homework	
	Introduction	OS 9.4
	Exercises	PB 9.1, Q7 (a), (b), (c)
	Review answers	
	Activity	Activity 9.1
	Set homework	PB 9.1, complete Q7 or Activity 9.1

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>5.</b>	<b>Fractions in Context</b> Discuss homework Examples - interactive Exercises Review answers Exercises Review answers Set homework	  OS 9.5 PB 9.2, Q4  PB 9.2, Q5  PB 9.2, Q3 and Q6
<b>6.</b>	<b>Conversion Between Fractions and Percentages</b> Discuss homework Introduction - interactive Exercises Review answers Exercises Review answers Set homework	  OS 9.7 PB 9.3, Q1 (a), (b), (c)  PB 9.3, Q2 (a), (b), (c)  PB 9.3, complete Q1 and Q2
<b>7.</b>	<b>Percentages and Quantities</b> Discuss homework Mental Test Review answers Introduction - interactive Exercises Review answers VAT, Example 3, p 155 Exercises Review answers Set homework	  M 9.1  OS 9.8 PB 9.4, Q1 (a), (b), (c)  Review method of calculation PB 9.4, Q2 (a), (b), (c)  PB 9.4, complete Q6 and Q7
<b>8.</b>	<b>Increasing and Decreasing Quantities by Percentages</b> Discuss homework Introduction Exercises Review answers Exercises Review answers Activity Set homework	  OS 9.9 PB 9.5, Q1  PB 9.5, Q2  Activity 9.3 PB 9.5, Q6 and Q9

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<b>9.</b>	<b>Revision Test</b> Discuss homework Revision Test	RT 9.1
<b>10.</b>	<b>Recap</b> Give back marked tests Go over test questions interactively Revise topics	

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>1.</b>	<b>Addition and Subtraction of Fractions</b>	
	Introduction - addition	OS 9.1
	Exercises	PB 9.1, Q1 (a), (b), (c)
	Review answers	
	Exercises	PB 9.1, Q2 (a), (b), (c)
	Review answers	
	Introduction - subtraction	OS 9.2
	Exercises	PB 9.1, Q1 (g), (h), (i)
	Review answers	
	Vulgar fractions - addition/subtraction	Review
	Set homework	PB 9.1, Q3 and Q4
<b>2.</b>	<b>Multiplication and Division of Fractions</b>	
	Discuss homework	
	Introduction - multiplication	OS 9.3
	Exercises	PB 9.1, Q5
	Review answers	
	Exercises	PB 9.1, Q6 (a), (b), (c)
	Review answers	
	Introduction - division	OS 9.4
	Exercises	PB 9.1, Q7 (a), (b), (c)
	Review answers	
	Set homework	PB 9.1, Q8 and Q9 or Activity 9.1
<b>3.</b>	<b>Fractions in Context</b>	
	Discuss homework	
	Introduction - interactive	OS 9.5
	Exercises	PB 9.2, Q4
	Review answers	
	Exercises	PB 9.2, Q5
	Review answers	
	More examples - interactive	OS 9.6
	Exercises	PB 9.2, Q7
	Review answers	
	Set homework	PB 9.2, Q6 and Q8

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>4.</b>	<b>Conversion Between Fractions and Percentages</b>	
	Discuss homework	
	Introduction - interactive	OS 9.7
	Exercises	PB 9.3, Q1
	Review answers	
	Exercises	PB 9.3, Q2
	Review answers	
	Activity	Activity 9.3
	Set homework	PB 9.3, Q3 and Q4
<b>5.</b>	<b>Percentages of Quantities</b>	
	Discuss homework	
	Introduction - interactive	OS 9.8
	Exercises	PB 9.4, Q1
	Review answers	
	VAT - Example 3, p 155	Review method of calculation
	Exercises	PB 9.4, Q2
	Review answers	
	Activity	Activity 9.5
	Review answers	
	Set homework	PB 9.4, Q6, Q7 and Q8 or complete Activity 9.5
<b>6.</b>	<b>Increasing and Decreasing Quantities by Percentages</b>	
	Discuss homework	
	Introduction - interactive	OS 9.9 and OS 9.10
	Exercises	PB 9.5, Q3
	Review answers	
	Activity	Activity 9.2
	Mental Test	M 9.2
	Review answers	
	Set homework	Complete Activity 9.5 or PB 9.5, Q4, Q5 and Q6
<b>7.</b>	<b>Finding Percentage Increase and Decrease</b>	
	Discuss homework	
	Introduction - interactive	OS 9.11
	Exercises	PB 9.6, Q1 and Q2
	Review answers	
	Exercises	PB 9.6, Q3 and Q4
	Review answers	
	Activity	Activity 9.4

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>8.</b>	Set homework	Complete Activity 9.4 or PB 9.6, Q5, Q6 and Q7
	<b>Revision Test</b>	
	Discuss homework	RT 9.2
	Revision Test	
<b>9.</b>	<b>Recap</b>	
	Give back marked tests	
	Go over test questions interactively	
	Revise topics	

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>1.</b>	<b>Revision of Operations with Fractions</b>	
	Introduction - interactive	OS 9.1 - OS 9.4
	Exercises	PB 9.1, Q12
	Review answers	
	Activity	Activity 9.1
	Set homework	PB 9.1, Q10 and Q11
<b>2.</b>	<b>Fractions in Context</b>	
	Discuss homework	
	Introduction - interactive	OS 9.5 and OS 9.6
	Exercises	PB 9.2, Q4
	Review answers	
	Exercises	PB 9.2, Q5
	Review answers	
	Using 'fraction' button on calculator	PB Y8A, p 148
	Exercises	PB 9.2, Q7
	Review answers	
	Set homework	PB 9.2, Q6, Q8 and Q10
<b>3.</b>	<b>Conversion Between Fractions and Percentages</b>	
	Discuss homework	
	Introduction - interactive	OS 9.7
	Exercises	PB 9.3, Q1
	Review answers	
	Exercises	PB 9.3, Q2
	Review answers	
	Activity	Activity 9.3
	Set homework	PB 9.3, Q3 and Q4
<b>4.</b>	<b>Percentages of Quantities</b>	
	Discuss homework	
	Introduction - interactive	OS 9.8
	Exercises	PB 9.4, Q1
	Review answers	
	VAT - Example 3, p 155	Review method of calculation
	Exercises	PB 9.4, Q2
	Review answers	
	Activity	Activity 9.5
	Review answers	
	Set homework	PB 9.4, Q6, Q7 and Q8 or complete Activity 9.5

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<i>Lesson No.</i>	<i>Suggested Plan</i>	<i>References</i>
<b>5.</b>	<b>Increasing and Decreasing Quantities by Percentages</b>	
	Discuss homework	
	Introduction - interactive	OS 9.9 and OS 9.10
	Exercises	PB 9.5, Q3
	Review answers	
	Activity	Activity 9.2
	Mental Test	M 9.3
	Review answers	
	Set homework	Complete Activity 9.5 or PB 9.5, Q4, Q5 and Q6
<b>6.</b>	<b>Finding Percentage Increase and Decrease</b>	
	Discuss homework	
	Introduction - interactive	OS 9.11
	Exercises	PB 9.6, Q1, Q2
	Review answers	
	Exercises	PB 9.6, Q3, Q4
	Review answers	
	Activity	Activity 9.4
	Set homework	Complete Activity 9.4 or PB 9.6, Q5, Q6 and Q7
<b>7.</b>	<b>Reverse Percentage Calculations</b>	
	Discuss homework	
	Introduction	OS 9.12
	Exercises	PB 9.7, Q1
	Review answers	
	Exercises	PB 9.7, Q4
	Review answers	
	Exercises	PB 9.7, Q8
	Review answers	
	Set homework	PB 9.7, Q2, Q5 and Q6
<b>8.</b>	<b>Revision Test</b>	
	Discuss homework	
	Revision Test	RT 9.3
<b>9.</b>	<b>Recap</b>	
	Give back marked tests	
	Go over test questions interactively	
	Revise topics	