



Sample assessme	ent task			
Year level	5			
Learning area	Mathematics			
Subject	Fractions and Decima	ls		
Title of task	Flag fractions			
Task details				
Description of task	Students will complete questions based around the fractional amounts of different colours on flags.			
Type of assessment	Summative			
Purpose of assessment	To assess students' ability to solve problems involving the addition and subtraction of fractions with the same denominator.			
Assessment strategy	Written			
Evidence to be collected	Question and answer booklet			
Suggested time	1 hour			
Content descript	ion			
Content from the Western Australian Curriculum	Number and Algebra Fractions and Decimals Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator			
Proficiencies	Understanding	Fluency	Reasoning	Problem Solving
	✓	✓	✓	✓
Task preparation				
Prior learning	Students have prior knowledge of:  equivalent fractions counting and ordering fractions making connection between fractions and decimal notation.			
Assessment differentiation	Teachers should differentiate their teaching and assessment to meet the specific learning needs of their students, based on their level of readiness to learn and their need to be challenged.  Where appropriate, teachers may either scaffold or extend the scope of the assessment tasks.			
Assessment task				
Assessment conditions	This is an individual, i	n-class assessment.		
Resources	Worksheet			

## Instructions for teacher

Distribute question and answer booklet to students. Discuss booklet and read through questions. Ensure students understand what is expected. Instruct students they will be completing this task individually.

## **Instructions to students**

This task is assessing your knowledge of fractions. Complete each question in the booklet. Show your thinking in the boxes.

1.	<ul> <li>A flag company is creating a flag that is blue, green and yellow.</li> <li>4/12 of the flag is blue and 3/12 of the flag is green.</li> <li>Use number sentences to show what fraction of the flag is yellow.</li> </ul>
2.	Draw what the flag may look like. Can you also draw it another way?

3.	If the company needed to make five of these flags, what fraction of the total fabric used is blue?
	Use number sentences to explain your answer and a diagram to support your answer.
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4.	The flags were packed into boxes of 100. One fifth of the flags were made incorrectly and had to be returned
	Answer the questions below and use number sentences to show your thinking.
	a) What fraction of the flags were sent back?
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	b) How many flags were made correctly?
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Sample marking key	
Description	Marks
Question 1: Solves a problem involving the addition and subtraction of fractions	
Creates and completes an appropriate number sentence to find the correct answer.	3
Creates and completes an appropriate number sentence to find an answer.	2
Number sentence and answer is inaccurate or incorrect.	1
Subtotal	3
Description	Marks
Question 2: Provides a diagrammatical representation of a fractional amount	
Creates an accurate representation of the fractional amount stated, where all parts are equal.	3
Creates a representation of the fractional amount stated, where all parts are equal.	2
Creates a representation of the fractional amount stated; however, some parts may be unequal or the representation is inaccurate.	1
Subtotal	3
Description	Marks
Question 3: Solves a complex problem involving fractions	
Solves the problem correctly, using appropriate and efficient number sentences, and clearly explains reasoning, using fractional terminology.	3
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clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning,	-
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.	2
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.	2
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.  Subtotal	2 1 3
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.  Subtotal  Description	2 1 3
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.  Subtotal  Description  Question 4: Solves a complex problem involving fractions	2 1 3 Marks
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.  Subtotal  Description  Question 4: Solves a complex problem involving fractions  Correctly calculates answer and explains reasoning clearly, using fractional language.	2 1 3 Marks
clearly explains reasoning, using fractional terminology.  Solves the problem, using appropriate number sentences, and explains reasoning, using some fractional terminology.  Solves the problem, using pictures and diagrams.  Subtotal  Description  Question 4: Solves a complex problem involving fractions  Correctly calculates answer and explains reasoning clearly, using fractional language.  Correctly calculates answer, with supporting pictures and diagrams.	2 1 3 Marks 3 2