

FSKNUM014 – Student Assessment Pack

Assessment Cover Sheet - Knowledge Questions

Name of student	David Nolan
Name of assessor	
Unit/s (code and name)	FSKNUM014 - Calculate with whole numbers and familiar fractions, decimals and percentages for work
Method of assessment	Written <input type="checkbox"/> Verbal <input type="checkbox"/>

Instructions

- This assessment consists of 8 questions
- Answers must be clear, concise and in your own words
- All notes and responses to be done in the spaces provided
- You must answer all questions correctly to be deemed satisfactory in this assessment
- Re-assessment of any incorrect responses will be undertaken verbally and noted on the assessment
- Identified special needs students may be able to undertake this assessment in a slightly different way please speak with your assessor if you believe that you are eligible for a modified assessment item

Student Declaration

I declare that no part of this assessment has been copied from another person's work with the exception of where I have listed or referenced documents or work and that no part of this assessment has been written for me by another person.

Signed: *David Nolan*

Date:

EDUCATIONAL ADJUSTMENTS MADE

Formatting	<input type="checkbox"/> Altered print size and layout <input type="checkbox"/> Audio Provided <input type="checkbox"/> Images to support text <input type="checkbox"/> Simplified language	
Time	<input type="checkbox"/> Extra Time <input type="checkbox"/> Rest Break <input type="checkbox"/> Administered in segments	
Assistive Technology	<input type="checkbox"/> Word Processor <input type="checkbox"/> Speech to text <input type="checkbox"/> Calculator	
Environmental	<input type="checkbox"/> Alternate location <input type="checkbox"/> Reduced audience <input type="checkbox"/> Support person present	
Other		
Assessor Safety Declaration	I confirm that I have completed a Safety Audit of the assessment environment prior to the commencement of the assessment process.	Yes <input type="checkbox"/> No <input type="checkbox"/>

☐ Satisfactory
☐ Not Satisfactory

Due date for reassessment (if required):

Feedback to student:

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Assessor Signature:		Date:	
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1. Fractions:		Satisfactory/ Not Yet Satisfactory	
a) $\frac{1}{2} + \frac{1}{2} =$	1	<input type="checkbox"/> S <input type="checkbox"/> NYS	
b) $1 - \frac{1}{2} =$	$\frac{1}{2}$	<input type="checkbox"/> S <input type="checkbox"/> NYS	
c) $1 - \frac{3}{4}$	$\frac{1}{4}$	<input type="checkbox"/> S <input type="checkbox"/> NYS	
d) $\frac{3}{4} + \frac{3}{4} =$	$\frac{1}{8}$	<input type="checkbox"/> S <input type="checkbox"/> NYS	
e) A baker makes 8 cakes. Each cake is then cut into quarters. How many slices of cakes are then in total?	28	<input type="checkbox"/> S <input type="checkbox"/> NYS	
2. Complete the missing numbers in the following table:			
Fraction	Decimal	Percentage	
$\frac{3}{4}$	0.75	75%	<input type="checkbox"/> S <input type="checkbox"/> NYS
$\frac{1}{2}$	0.5	50%	<input type="checkbox"/> S <input type="checkbox"/> NYS
$\frac{1}{4}$	0.20	20%	<input type="checkbox"/> S <input type="checkbox"/> NYS
$\frac{1}{5}$	0.25	25%	<input type="checkbox"/> S <input type="checkbox"/> NYS
$\frac{1}{8}$	0.125	125%	<input type="checkbox"/> S <input type="checkbox"/> NYS

3. Use a multiplication question to check the given division (the first one has been completed for you). Complete the division then show how you would check this with a multiplication.

Division	Multiplication (Checking)	
$42 \div 3 = 14$	$3 \times 14 = 42$	<input type="checkbox"/> S <input type="checkbox"/> NYS
$54 \div 9 = 6$	$6 \times 9 = 54$	<input type="checkbox"/> S <input type="checkbox"/> NYS
$990 \div 10 = 99$	$99 \times 10 = 990$	<input type="checkbox"/> S <input type="checkbox"/> NYS
$60 \div 12 = 5$	$5 \times 12 = 60$	<input type="checkbox"/> S <input type="checkbox"/> NYS
4. Place value of zero:		
a) For the number 3098, what does the 0 mean? <input checked="" type="checkbox"/> 0 hundreds <input type="checkbox"/> 0 tens <input type="checkbox"/> 0 units <input type="checkbox"/> 0 thousands		<input type="checkbox"/> S <input type="checkbox"/> NYS
b) For the number 1980, what does the 0 mean? <input type="checkbox"/> 0 hundreds <input checked="" type="checkbox"/> 0 tens <input type="checkbox"/> 0 units <input type="checkbox"/> 0 thousands		<input type="checkbox"/> S <input type="checkbox"/> NYS
5. When completing mathematical calculations you will need to follow the correct Order of Operations e.g.: BOMDAS: Brackets, Orders (e.g.: powers, square root), Multiplication, Division, Addition and Subtraction. For example, if you were given: $100 - (5 \times 4^2 + 3)$ Start inside the Brackets Do Orders first: $100 - (5 \times 16 + 3)$ Then Multiply: $100 - (80 + 3)$ Then Add: $100 - (83)$ Then Subtract: 17 (final answer) What is the result of the following:		
a) $8 \times 3 - 12 \div 4 + 8$	8	<input type="checkbox"/> S <input type="checkbox"/> NYS

b) $2 \times 8 - 2 \times 3 + 16 + 4$	30	<input type="checkbox"/> S <input type="checkbox"/> NYS	
c) $80 - (5 \times 2^2 + 3)$	-23	<input type="checkbox"/> S <input type="checkbox"/> NYS	
d) $(3 - \frac{1}{2} \times 4) \times 3$	3	<input type="checkbox"/> S <input type="checkbox"/> NYS	
6. Two construction workers' combined income is \$3025. If one earns \$175 more than the other, find the monthly take-home pay of each.			
\$1425 and \$1600		<input type="checkbox"/> S <input type="checkbox"/> NYS	
7. You have been asked to estimate the following areas of several rectangular fields. Provide the estimate and then check your answer with a calculator			
Field (length x width)	Estimate	Using a Calculator	Was your result reasonable? Why/why not
51m x 20m	50 x 20 = 1000 metres	1020 metres	Yes the estimate of 1000 is close to the actual answer 1020 <input type="checkbox"/> S <input type="checkbox"/> NYS
690m x 100m	70000m	69000	The estimate was close <input type="checkbox"/> S <input type="checkbox"/> NYS
82m x 100m	8000	8200	The estimate was close <input type="checkbox"/> S <input type="checkbox"/> NYS
78m x 50m	4000	3900	The estimate was close <input type="checkbox"/> S <input type="checkbox"/> NYS

8. Part of the nutritional information provided on a milk drink includes information about the recommended daily allowances of minerals and vitamins.

Mineral and Vitamins	Per Serving	Percentage of recommended daily allowance
Iron (mg)	2.7	20%
Calcium (mg)	110	50%
Vitamin A (µg)	105	25%
Vitamin B1 (mg)	0.18	20%
Vitamin B2 (mg)	0.14	25%
Sodium (mg)	49	10%
Potassium (mg)	120	10%

- a) Calculate how many of the milk drinks you need to drink to provide your recommended daily allowance of calcium.

2 servings of milk

☐ S
☐ NYS

- b) Calculate how many of the milk drinks you need to drink to provide your recommended daily allowance of sodium.

20 servings of milk

☐ S
☐ NYS

Assessment Cover Sheet – Project

Name of student	David Nolan		
Name of Assessor			
Unit/s (code and name)	FSKNUM014 - Calculate with whole numbers and familiar fractions, decimals and percentages for work		
Method of assessment	Project		
Instructions			
<ul style="list-style-type: none"> • This assessment consists of 3 activities • Answers must be clear, concise and in your own words • You will require access to a computer, internet, and office software e.g., Word • You must show all your working out and answer all questions or complete the activities correctly to be deemed competent in this unit • Re-assessment of any incorrect responses will be undertaken verbally and noted on the assessment • Identified special needs students may be able to undertake this assessment in a slightly different way please speak with your assessor if you believe that you are eligible for a modified assessment item 			
Student Declaration			
I declare that no part of this assessment has been copied from another person's work with the exception of where I have listed or referenced documents or work and that no part of this assessment has been written for me by another person.			
Signed: <i>David Nolan</i>		Date:	
EDUCATIONAL ADJUSTMENTS MADE			
Formatting	<input type="checkbox"/> Altered print size and layout <input type="checkbox"/> Audio Provided <input type="checkbox"/> Images to support text <input type="checkbox"/> Simplified language		
Time	<input type="checkbox"/> Extra Time <input type="checkbox"/> Rest Break <input type="checkbox"/> Administered in segments		
Assistive Technology	<input type="checkbox"/> Word Processor <input type="checkbox"/> Speech to text <input type="checkbox"/> Calculator		
Environmental	<input type="checkbox"/> Alternate location <input type="checkbox"/> Reduced audience <input type="checkbox"/> Support person present		
Other			
Assessor Safety Declaration	I confirm that I have completed a Safety Audit of the assessment environment prior to the commencement of the assessment process.		Yes <input type="checkbox"/> No <input type="checkbox"/>
<input type="checkbox"/> Satisfactory <input type="checkbox"/> Not Satisfactory		Due date for reassessment (if required):	
Feedback to student:			
Assessor Signature:			Date:

CONTEXT:

You have been assigned to organise the next Red Food Day at school.

Your group is in charge of purchasing the food supplies for the sausage sizzle and drinks stand.

The number of students and staff attending the day is approximately 450.
Usually, only 70% of attendees purchase food on the day.

Your group has been allocated a budget of \$600.

Below are the current prices from the Colesonline website. Please ensure that you show your working out with your answer.



Featured
Schweppes Lemonade
375mL Cans | 30 pack

\$21.00
\$1.87 per 100mL
★★★★★ 0.0

 Add



Featured
Wonder White Bread +
Vitamins & Mineral |
700g

\$3.90
\$0.56 per 100g
★★★★★ 0.0

 Add



Coles Thin BBQ Beef
Sausages | 1.8kg

\$12.00
Until 2 May 2023
\$6.67 per 1kg
★★★★★ 0.0

 Add



Fountain Tomato
Sauce Value Pack
Ketchup | 2L

\$5.80
\$0.29 per 100mL | Was \$7.50
on May 2022
★★★★★ 0.0

 Add

ACTIVITY 1

1. Decide on the food stuffs that you will need to order for the sausage sizzle and create a list.	
If 315 people wanted a drink and sausage then around 11 packs of lemonade would be bought, plus 15 packs of sausages, 40 packs of bread, and 2 bottles of sauce.	<input type="checkbox"/> S <input type="checkbox"/> NYS
2. Calculate how much of each item you will need to purchase if 75% of attendees each purchase one sausage and one soft drink.	
Consider: Sausages come in packs of 24, how many packs will you need to purchase? Soft drink comes in cartons of 30, how many cartons will you need? 1 loaf of bread has 16 slices, how many loaves of bread will you need? You will only need 2 bottles of tomato sauce.	
Sausages = 15	<input type="checkbox"/> S <input type="checkbox"/> NYS
Soft drink = 11	<input type="checkbox"/> S <input type="checkbox"/> NYS
Bread = 40	<input type="checkbox"/> S <input type="checkbox"/> NYS
Sauce = 2	<input type="checkbox"/> S <input type="checkbox"/> NYS

ACTIVITY 2

1. Refer to the current prices available from the scenario above and calculate how much each of these items costs to purchase in their bulk packages:		
Carton of Soft drink	$11 \times 21 = \$231$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Pack of sausages	$15 \times 12 = \$180$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Loaf of bread	$40 \times 3.90 = \$156$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Sauce	$2 \times 5.8 = 11.6$	<input type="checkbox"/> S <input type="checkbox"/> NYS
2. Calculate the total costs of each item required on the day		
Soft drink	$21 / 30 = \$0.70$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Sausages	$12 / 15 = \$0.24$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Bread	$40 / 3.9 = \$9.60$	<input type="checkbox"/> S <input type="checkbox"/> NYS
Sauce	$2 / 5.8 = 0.34$	<input type="checkbox"/> S <input type="checkbox"/> NYS

ACTIVITY 3

1. Your group has been allocated a budget of \$600.00 for the day. Will there be any leftover funds? If so, how much?	
$231 + 180 + 156 + 11.6 = \$578.6 = \$21.4 \text{ leftover}$	<input type="checkbox"/> S <input type="checkbox"/> NYS