



"supporting schooling for excellence"

NAME: _____

GRADE: _____



TERM: _____
"supporting schooling for excellence"

TEACHER: _____

SCHOOL: _____

FRACTIONS

QUICK MATHS



Add:

• $\frac{3}{5} + \frac{1}{5} =$ _____

• $\frac{6}{13} + \frac{4}{13} =$ _____

• $\frac{7}{15} + \frac{7}{15} =$ _____

• $\frac{3}{7} + \frac{4}{7} =$ _____

• $\frac{10}{17} + \frac{5}{17} =$ _____

QUESTION 1

1.1 Complete the patterns.

a)	a	1	2	6	9	$10\frac{1}{4}$
	$b = a + \frac{3}{4}$	$1\frac{3}{4}$	$2\frac{3}{4}$	i.	ii.	iii.
b)	a	$1\frac{1}{2}$	$2\frac{1}{2}$	$4\frac{1}{2}$	$7\frac{1}{4}$	$9\frac{1}{6}$
	$b = a + 1\frac{1}{2}$	3	4	i.	ii.	iii.
c)	a	$1\frac{2}{5}$	$2\frac{4}{5}$	$3\frac{3}{5}$	$4\frac{5}{5}$	$5\frac{4}{5}$
	$b = a + 5\frac{1}{5}$	$6\frac{3}{5}$	8	i.	ii.	iii.

1.2 Add by showing all your steps and simplify.

a) $4\frac{2}{3} + 6\frac{4}{9}$

b) $2\frac{4}{5} + 3\frac{6}{15}$

c) $6\frac{8}{9} + 4\frac{2}{3} + \frac{7}{18}$

d) $\frac{7}{8} + 5\frac{1}{2} + 1\frac{3}{4}$

e) $10\frac{6}{11} + 5\frac{9}{22}$

f) $3\frac{5}{12} + 4\frac{4}{5}$



1.3 Use the rule to complete the tables.

a) $y = x + \frac{4}{5}$

x	$\frac{5}{7}$	$\frac{8}{10}$	$\frac{7}{12}$	$\frac{8}{11}$	$\frac{4}{13}$
y					

b) $y = x + 2\frac{3}{8}$

x	$2\frac{3}{4}$	$5\frac{6}{7}$	$6\frac{2}{3}$	$7\frac{5}{6}$	$9\frac{1}{2}$
y					

1.4 Write down a number sentence and show all the steps to calculate the following.

a) A tree grows $1\frac{1}{3}$ m each year. How high will the tree be in 4 years?

b) A gardener plants shrubs. The first day he planted $\frac{7}{20}$ of the garden. The second day he planted $\frac{5}{8}$ of the garden and the third day $\frac{3}{10}$. How many parts of the garden did he plant?

QUICK MATHS



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Subtract:

• $\frac{7}{15} - \frac{2}{15} =$ _____

• $\frac{3}{8} - \frac{1}{8} =$ _____

• $\frac{7}{9} - \frac{6}{9} =$ _____

• $\frac{10}{20} - \frac{1}{2} =$ _____

QUESTION 2

2.1 Complete the patterns

a)

a	2	3	4	5	6
$b = a - \frac{5}{7}$	$1\frac{2}{7}$	$2\frac{2}{7}$	i.	ii.	iii.

b)

a	$2\frac{1}{3}$	$3\frac{1}{4}$	$4\frac{1}{5}$	$5\frac{1}{6}$	$6\frac{1}{7}$
$b = a - \frac{1}{2}$	$1\frac{5}{6}$	$2\frac{3}{4}$	i.	ii.	iii.

c)

a	3	5	7	9	11
$b = a - 1\frac{3}{5}$	$\frac{7}{5}$	$\frac{17}{5}$	i.	ii.	iii.

2.2 Subtract.

a) $3\frac{2}{7} - \frac{5}{7}$

b) $5\frac{6}{7} - 2\frac{3}{7}$

c) $4\frac{1}{3} - 1\frac{1}{2}$



d) $6 - 3\frac{5}{8}$

e) $1\frac{8}{11} - \frac{5}{6}$

f) $7\frac{1}{2} - 2\frac{1}{3} - \frac{1}{5}$

2.3 Use the rule to complete the tables.

a) $y = (2 + x) - \frac{4}{5}$

x	$\frac{3}{5}$	$\frac{4}{7}$	$\frac{5}{9}$	$\frac{6}{11}$	$\frac{7}{13}$
y					

b) $y = x - \frac{3}{4}$

x	$1\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{3}{4}$	4	$5\frac{1}{5}$
y					

2.4 Write a number sentence and show all your working out when calculating the following.

a) Sarie has 10 blocks of chocolate. She gives some to her friends. Jannie gets $4\frac{1}{2}$ of the blocks, Mpho $2\frac{1}{5}$ of the blocks and she gives Sipho $1\frac{1}{8}$ of the blocks. How much chocolate does Sarie have left?

b) George is travelling to visit his family. The first day he drove $\frac{2}{3}$ km and the second day $\frac{4}{5}$ km of the journey. How many kilometres did he travel? How many kilometres does he have left to travel?

QUICK MATHS



- Convert the mixed numbers to improper fractions.

• $3\frac{4}{7} =$ _____

$5\frac{1}{8} =$ _____

• $5\frac{2}{5} =$ _____

$8\frac{1}{2} =$ _____

• $9\frac{4}{5} =$ _____

$12\frac{2}{3} =$ _____

QUESTION 3

3.1 Complete the patterns.

a)	a	$\frac{10}{12}$	$\frac{15}{9}$	$\frac{20}{6}$	$\frac{25}{3}$	30
	$b = a \times \frac{3}{5}$	$\frac{1}{2}$	1	i.	ii.	iii.
b)	a	$\frac{1}{3}$	$\frac{2}{6}$	$\frac{3}{9}$	$\frac{4}{12}$	$\frac{5}{15}$
	$b = a \times 3$	1	1	i.	ii.	iii.
c)	a	5	10	15	20	25
	$b = a \times 2\frac{1}{5}$	11	22	i.	ii.	iii.

3.2 Multiply the following by using the method that you learned.

a) $\frac{7}{12} \times \frac{8}{21}$

b) $3\frac{4}{6} \times 1\frac{7}{11}$

c) $5\frac{1}{2} \times 4\frac{2}{5} \times \frac{10}{11}$

d) $\frac{5}{8} \times 6 \times 1\frac{4}{5}$

e) $3\frac{2}{3} \times 2\frac{3}{4} \times 1\frac{1}{11}$



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f) $\frac{14}{5} \times \frac{20}{7} \times 8$

3.3 Complete the patterns by using the rules.

a) $y = x \times \frac{8}{20}$

x	100	240	360	480	500
y					

b) $y = \frac{9}{10}$ of **x**

x	20	40	60	80	100
y					

3.4 Write down a number sentence and show all your calculations.

a) A butcher sells $\frac{5}{6}$ of 3kg of meat to a customer. Calculate the amount of meat the customer bought in grams.

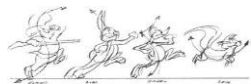
b) Another customer buys $\frac{3}{5}$ of the meat left from the meat in 3.4 a). How many grams of meat is left?

c) If the meat is R68 per kg, how much did the butcher make on the two sales?



DECIMAL FRACTIONS

QUICK MATHS



- Convert the fractions to decimal fractions,

- $\frac{5}{10} = \dots\dots\dots$

- $\frac{9}{20} = \dots\dots\dots$

- $\frac{3}{10} = \dots\dots\dots$

- $\frac{2}{5} = \dots\dots\dots$

- $3\frac{2}{10} = \dots\dots\dots$

- $\frac{8}{25} = \dots\dots\dots$

- $\frac{4}{10} = \dots\dots\dots$

- $\frac{12}{50} = \dots\dots\dots$

QUESTION 4

4.1 Complete the following patterns.

a)

a	$\frac{7}{10}$	$\frac{6}{12}$	$\frac{8}{20}$	$\frac{10}{20}$	$\frac{15}{20}$
b = a + 0,35	0,7 + 0,35 = 1,05	0,5 + 0,35 = 0,85	i.	ii.	iii.

b)

a	12,8	14,2	16,3	18,1	20,9
$b = a - 1,4$	11,4	12,8	i.	ii.	iii.

c)

a	1,3	2,4	3,5	4,6	5,7
$b = 0,46 \times a$	0,598	1,104	i.	ii.	iii.

4.2 Multiply using the method you learned.

a) $12,85 \times 0,4$

b) $4,235 \times 0,23$



c) $\frac{8}{14} \times 6\frac{7}{14}$

d) $\frac{2}{10} \times 15,43$

e) $45,2 \times \frac{9}{100}$

f) $9 \times 0,895$

4.3 Complete the patterns.

a) $y = 0,5x \times 1,6$

x	0,5	0,8	1,1	1,4	1,7
y					

b) $y = x - 5,123$

x	12,8	14,9	16	18,21	20,46
y					

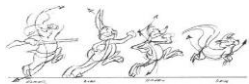
4.4 Write down the number sentences and show all the calculations.

a) Work out the area of a floor if the length is 5,8m and the width is 2,7m. Area is length x width and is measured in m².

b) Tiles cost R112,50 per m². What will the cost be to tile the floor?

PERCENTAGES

QUICK MATHS



Calculate the percentages.

• $\frac{8}{10} = \dots\dots\dots$

$\frac{12}{25} = \dots\dots\dots$

• $\frac{9}{20} = \dots\dots\dots$

$\frac{17}{50} = \dots\dots\dots$

• $\frac{15}{30} = \dots\dots\dots$

$\frac{17}{34} = \dots\dots\dots$

• $\frac{8}{15} = \dots\dots\dots$

$\frac{24}{40} = \dots\dots\dots$

• $\frac{19}{25} = \dots\dots\dots$

$\frac{12}{60} = \dots\dots\dots$

QUESTION 5

5.1 Complete each of the patterns.

a)

a	430	550	680	790	820
b = 20% of a	86	110	i.	ii.	iii.

b)

a	2 000	3 600	4 800	5 000	6 700
b = 35% of a	700	1260	i.	ii.	iii.

c)

a	R50,60	R70,80	R90,45	R110,70	R130,90
b = 15% of a	R7,59	R10,62	i.	ii.	iii.

5.2 Write down the number sentences and show all the calculations.

a) Increase 58 by 12%.

b) Decrease 120 by 15%.

c) Calculate the % profit if a cupboard of R380 is sold for R420.

d) Calculate the % loss if the cupboard of R380 is sold for R250.

5.3 Complete the table.

PURCHASE PRICE	SELL PRICE	R PROFIT / LOSS	% PROFIT / LOSS
R6 430	R5 880	R	
R620	R790	R	
R4 800	R6 000	R	
R8 310	R8 000	R	
R2 315	R3 550	R	

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5.4 Complete the table. Write the fractions in its simplest form.

FRACTION	DECIMAL	%
$\frac{45}{100}$		
	0,06	
		125%