

		Name:			
		Gr 8		Date:	
CAPS Reference	1-4 Common Fractions				
Topic	1-4-8 Solving Problems				



### 1. Go ahead! [45 mins]

Use your knowledge of fractions to answer the following:

1. Nobuhle is having a party. She has R1 000 to spend on it.

She spends  $\frac{1}{4}$  on snacks  $\frac{3}{8}$  on fried chicken and  $\frac{1}{5}$  on cool drink.

How much money does she have left to spend on decorations?

2. Sitya earns R1 500 a month working as a part time packer at a supermarket. He uses it as follows:

Household expenses  $\frac{1}{3}$

School Fees  $\frac{1}{5}$

Savings for University  $\frac{1}{4}$

How much money does he have left for other expenses?

3. A business makes R10 000 profit every day.

75% of their profit comes from selling computers and 20% from selling phones.

How much money do they make from selling everything else?

4. Your brother gave you R250. If you spent 40% of that money on going to watch soccer,

$\frac{1}{4}$  on eating at McDonalds and 0,2 on drinking soda , How much money do you have left

for taxi fare to the match?

5. You are asked to choose one of the following fractions of a tub of ice cream:

0,54 or 0,054 or 54% or  $\frac{27}{50}$

Which one will you NOT choose? Why

6. My oldest relative is Aunt Jane who is 99 years old. My youngest is Michael who is 6 years old. What fraction is Michael's age of Aunt Janes's age?

7. Pete is 1,75 m tall. His brother  $\frac{1}{10}$  is taller than Pete.  
How tall is his brother?
8. If I work for  $\frac{3}{7}$  of a week, how many days off do I get in total over three weeks?
9. A shop offers a cash discount of 15% for phones, 18% for tablets and 20% for computers  
Calculate the discounted price of the following goods:
- Pikup phone marked R3 250  
Toot-u phone marked R1 200  
Smoothx tablet marked R1700  
llearn tablet marked R2 400  
Simplex computer marked R4 500  
Komplex computer marked R7 500
10. A building firm charges R12 500 per day labour.  
Their expenses are as follows:
- Staff costs 20%,  
Petrol costs  $\frac{1}{10}$   
Administrative costs are 0,15.  
How much profit do they make in a day?
11. A cargo ship can carry containers weighing up to 50,000 tonnes. It costs R20 million to rent out the entire space on this ship.
- 11.1 How much will it cost me if I want to rent  $\frac{2}{5}$  of the entire space?  
11.2 How much will I pay and how many tonnes do my containers weigh?  
11.3 How many tonnes of space do the firm have left to sell on?
- 12  $\frac{5}{8}$  of your birthday cake was eaten at your party.  
The next day the family ate  $\frac{1}{2}$  of what was left and you ate the remainder.  
What fraction of the cake did you eat?



2. **Check your work! [15 mins]**