

## Achieved Number Practice #2

1. Josh buys a car on hire purchase. The car costs \$35,000. He has to pay a deposit of 20%. How much deposit does Josh pay?
2. A telephone company offers various top-up plans. One plan allows 100 photos to be sent for \$20. Another gives 250 photos sent for \$45. Which is the cheaper plan per photo?
3. Amuketi passed seven out of eight units he sat during the year. If he sat 32 papers, how many did he pass?
4. Restaurants often add an extra "surcharge" on public holidays. Hal fancies a steak that is shown on the menu for \$22. If the surcharge is 5%, how much will the steak cost him?
5. Ryan and Edward buy a boat. They decide that Ryan gets first pick of weeks but that Edward can use it for three weeks for every two that Ryan can use it. It will be serviced for two weeks a year. How many of the 50 weeks they share each year do they each get?
6. Cement can be coloured using a pigment (powder) at the rate of  $1\frac{1}{4}$  kg of pigment for every 50 kg of cement made. How much cement can you colour with a 10 kg bag of pigment?
7. Ashley and Shane share a taxi. As Shane was going slightly further, he agreed to pay  $\frac{5}{8}$  of the cost. If the taxi ride cost \$22, how much was Ashley's share?
8. Cuan wants to buy some South African Rand. How much will he get for \$200 NZ dollars if the exchange rate is 1 NZD = 5.25865 ZAR?
9. A house in the Lagoon Resort in Savaii, Samoa can be rented for four days for \$600. Next door in the Beach Resort can be rented for five days for \$750. Which place is cheaper on a daily basis?
10. Three out of every four people jailed in NZ left school with no qualifications. If there are 6,000 prisoners in NZ, how many left school with no qualifications?
11. James spent \$80 cash and \$180 on his credit card doing his Christmas shopping. What percentage of his purchases were on the credit card?
12. Jay decides he should save 60% of his money so he will be able to afford expensive Xmas presents for his family. If he gets \$180 each month, how much should he save?
13. Iain sees a cheap Playstation in Noel Leemings but is told G.S.T. of 15% has not been added on yet. The price of the Playstation was \$124. What will the price with GST be?
14. A recipe for chicken nuggets uses 1 tsp onion powder,  $\frac{1}{2}$  tsp garlic powder and one egg for every  $\frac{1}{2}$  kg of chicken you have. How much garlic powder do I need if I am making  $2\frac{1}{2}$  kg of chicken into nuggets? (tsp = teaspoon full)?
15. 1 hectare = 2.471 acres. How many hectares is a 200 acre farm?

## Answers: Achieved Number Practice #2

- $\frac{20}{100} \times 35000 = 7,000$  **Josh has to pay a deposit of 7,000**
- $20 \div 100 = 0.20$  each  
 $45 \div 250 = 0.18$ each **The 250 plan is 2 cents cheaper per photo**
- $\frac{7}{8} \times 32 = 28$  **Amuketi passed 28 units**
- $\frac{5}{100} \times 22 + 22 = 23.1$  **The steak will cost \$23.10**
- Edward gets 3 weeks for every 2 weeks that Ryan gets = 3 out of 5.  
 $3 \text{ out of } 5 = \frac{3}{5}$   $\frac{3}{5} \times 50 = 30$ , leaving 20 left over  
**Edward gets 30 weeks and Ryan gets 20**
- $10 \div 1\frac{1}{4} = 8$  lots  
 $8 \times 50 = 400$  **You can colour 400 kg of cement**
- $\frac{3}{8} \times 22 = 8.25$  **Ashley's share was \$8.25**
- $200 \times 5.25865 = 1,051.73$  **Cuan will get 1,051.73 Rand**
- $600 \div 4 = 150$   
 $750 \div 5 = 150$  **They are the same price per day**
- $\frac{3}{4} = 6\ 000 = 4\ 500$  **4,500 left school with no qualifications**
- Total purchases were  $80 + 180 = 260$   
 $\frac{180}{260} = 0.692307 = 69.2307\%$  **63.2% were on his credit card**
- $\frac{60}{100} \times 180 = 108$  **Jay should save \$108 each month**
- $\frac{15}{100} \times 124 + 124 = 4,860$  **It will cost \$142.60**
- $2\frac{1}{2} \div \frac{1}{2} = 5$  lots  
 $5 \times \frac{1}{2} = 2\frac{1}{2}$  **Need 2½ tsp of onion powder**  
(or answer by way of ratio of ½ tsp of powder for each ½ kg chicken)
- $200 \div 2.471 = 80.93889$  **200 acres is 80.93 hectares**