## Achieved Number Practice \#1

1. If I buy 5 pencils at 25 cents each, and a two rubbers at $\$ 1.20$, how much change do I have from a $\$ 20$ note?
2. 1 inch $=25.4 \mathrm{~mm}$. How many inches is a 250 mm ruler?
3. If Ben normally sleeps 7 hours a night, what percentage of each ( 24 hour) day does he sleep?
4. Andrew earns $\$ 44,000$ a year. He works really hard and his boss gives him an $8 \%$ bonus. How much is the bonus?
5. Daniel works for 12 hours and Connor for 9 hours at the same hourly rate. If Daniel gets paid $\$ 198$, how much does Connor get paid?
6. Plaster of Paris costs $\$ 6.80$ for a $21 / 2 \mathrm{~kg}$ bag at Home Depot, and $\$ 5.20$ for a 2 kg bag at Surprise Hardware. Which offers the better deal?
7. A store is offering "20\% discount" on all goods. Edward wants a jacket that normally costs $\$ 180$ ? How much must Edward pay for the jacket?
8. Sarmad has 200,000 Iraqi Dinars. If the exchange rate is $1.00 \mathrm{IQD}=0.001133 \mathrm{NZD}$, how much will Sarmad get in NZ dollars?
9. Wairere is advised to drink 125 ml of energy drink for every 15 minutes of strenuous exercise. If he has a 500 ml bottle of drink, how much exercise is this enough for?
10. Myxomatosis is a disease of rabbits. If a new strain kills 290 of the original population of 310 rabbits, what percentage are killed?
11. Liam is paid $12 \%$ commission on all his sales. If he sells $\$ 23,000$ worth of material, how much will he get?
12. Morgan Enterprises promises to donate $\$ 2$ extra for every $\$ 5$ raised by a charity. If the charity raises $\$ 24,000$, how much extra will Morgan Enterprises donate?
13. Zak puts $\$ 4,500$ into a term deposit bank account that pays $8 \%$ per annum. How much does he have at the end of the year?
14. Thomas pays for $\$ 15$ of a $\$ 20$ lotto ticket. It wins $\$ 65,000$. What is his share of the winnings?
15. 1 litre $=0.2641$ US gallons. How many litres is a 44 gallon drum?

## Answers: Achieved Number Practice \#1

1. $5 \times 0.25+2 \times 1.20=\$ 3.65$
$20-3.65=16.35 \quad$ I get $\$ 16.35$ change
2. $250 \div 25.4=9.8425$

The ruler is 9.84 inches long
3. $\frac{7}{24}=0.291666=29.16666 \%$

Ben sleeps 29.2 \% of the day
4. $\frac{8}{100} \times 44000=3,520$ Andrew's bonus is $\mathbf{\$ 3 , 5 2 0}$
5. Daniel gets paid $198 \div 12=16.50$
$9 \times 16.50=148.5$
Connor gets paid \$148.50
( or Connor gets $\frac{9}{12}$ of Daniel. $\frac{9}{12} \times 198=148.5$ )
6. Home Depot $6.8 \div 21 / 2=2.72$

Surprise $5.2 \div 2=\$ 2.60$
7. $180-\frac{20}{100} \times 180=144$
8. $200000 \times 0.001133=266.642$

Surprise is cheaper ( 12 cents a kg)

Edward must pay \$144

Sarmad will get \$266.60
9. $500 \div 125=4$, so there are four lots of 125 mL in a 500 mL bottle
$4 \times 15=60$
10. $\frac{290}{310}=0.9354838=93.54838 \%$
11. $\frac{12}{100} \times 23000=2,760$

It is enough for 60 minutes

It kills $\mathbf{9 3 . 5 \%}$ of the rabbits

Liam is paid \$2,760 in commission
12. $24000 \div 5=4800$, and for every five they give two, so
$4800 \times 2=9,600$
13. $\frac{8}{100} \times 4500+4500=4,860$
14. His share is 15 out of $20=\frac{15}{20}$
$\frac{15}{20} \times 65000=48750$
15. $44 \div 0.264=166.6035$

They will donate $\$ \mathbf{9 , 6 0 0}$

Zak will have \$4,860

Thomas will get $\$ \mathbf{4 8}, 750$

A 44 gallon drum is $\mathbf{1 6 6 . 6}$ litres

