

The skills in this series of exercises appear frequently.

These are the GIFTS you must take to succeed.



## **Numeracy Unit**

### **Exercise 8**

#### **Inverse Proportion (Non-Calculator)**

Calculate:

1. 3 workers take 8 hours to wash a building roof. How long would it take 4 workers?
2. 7 pet store guinea pigs have enough dry food for 8 days. How many days will it last if 3 are purchased?
3. 5 cleaners take 2 hours to clean a building. How long would it take 4?
4. 30 horses have enough food for 15 days. How long would it last if 5 horses were sold?
5. Rick Grimes has enough food to feed 192 residents of Alexandria for 18 days. How many days would it last if the community lost 48 people to the walkers?
6. Airdrie FC have enough Bovril to last an average crowd of 1200 people 8 games. After more defeats the crowd drops by 400. How many games will the Bovril last?
7. 3 painters take 7 hours to complete a job. How long would the job take if there were 5 painters working at the same rate?
8. It takes 5 people 24 minutes to eat a box of cinema popcorn. How many minutes would it last 3 people?
9. It takes a team of 7 gardeners 12 working days to complete a job. What is the minimum number of gardeners required to complete the job in 10 working days?
10. A fast food crew with 6 workers can make 100 burgers in 3 hours. How long would it take if 2 members of the crew were off sick?



#### **Applying Question**

An employer knows that it will take 5 tradespeople 16 days to renovate a property?

The employer decides to reduce his staffing by 20% before the start of the job.

If the renovation begins on 20<sup>th</sup> October, what date will it be completed?