## INVERSE PROPORTION SKILLS QUESTIONS

Remember to multiply to find the TOTAL first.

- Q1. Three horses have enough food for 5 days.
- (a) What is the total amount of food?
- (b) How long would the same amount of food last for 6 horses? (Assume that each horse eats the same amount per day.)
- Q2. Five cattle have food for 8 days.
- (a) What is the total amount of food?
- (b) How long would the same amount of food last for 4 cattle?
- Q3. A job requires 10 people to 60 hours of work each.
- (a) What is the total of man-hours for this job?
- (b) How long would it take 15 people to do the same job?
- Q4. Nine trucks can move a pile of rubble if each make 8 trips.
- (a) What is the total of truck-trips to do the job?
- (b) If only 6 trucks were used, how many trips would each truck have to make?
- Q5. A cyclist completes a journey in 4 hours at 15 km/h.
- (a) What distance was travelled?
- (b) If he had travelled at 20 km/h, how long would the trip have taken?
- Q6. A car travels at 100 km/h for 5 hours.
- (a) What distance was travelled?
- (b) How long would the trip have taken at 80 km/h?
- Q7. An army carries enough food for 500 soldiers for 3 days. How long will the same amount of food last for 750 soldiers?
- Q8. A hospital kitchen stores enough food for 2000 patients for a week. How long would this food last 3500 patients?
- Q9. To complete a task, 5 printing machines run constantly for 6 hours. To do the task in  $4\frac{1}{2}$  hours, how many machines would be needed?
- Q10. To complete a task, 3 machines run constantly for 8 hours and 45 minutes. To complete the same task in  $2\frac{1}{8}$  hours, how many machines would be needed?



## **ANSWERS**

- Q1. (a) 15
- (b) 2.5 days
- Q2. (a) 40
- (b) 10 days
- Q3. (a) 600
- (b) 40 hours
- Q4. (a) 72
- (b) 12 trips
- Q5. (a) 60 km
- (b) 3 hours
- Q6. (a) 500 km
- (b) 6.25 hours
- Q7. 2 days
- Q8. 4 days
- Q9. 6.6 rounded up to 7 printers
- Q10. 12.4 rounded up to 13 machines