# 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 $15 \mathrm{~km} / \mathrm{h}$.
(a) What distance was travelled?
(b) If he had travelled at $20 \mathrm{~km} / \mathrm{h}$, how long would the trip have taken?

Q6. A car travels at $100 \mathrm{~km} / \mathrm{h}$ for 5 hours.
(a) What distance was travelled?
(b) How long would the trip have taken at $80 \mathrm{~km} / \mathrm{h}$ ?

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 $41 / 2$ 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 $21 / 8$ 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

