INVERSE PROPORTION

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	If y is inversely proportional to x and $y = 10$ when $x = 2$, find y when $x = 5$	2.	If y is inversely proportional to x and y = 6 when $x = 3$, find x when $y = 9$	x = 2
3.	If y is inversely proportional to x and $y = 12$ when $x = 4$, find y when $x = 6$	4.	If y is inversely proportional to x and y = 15 when $x = 5$, find x when $y = 25$	x = 3
5.	If y is inversely proportional to x and y = 20 when $x = 10$, find y when $x = 25$	6.	If y is inversely proportional to x and y = 9 when $x = 7$, find x when $y = 21$	x = 3
7.	If y is inversely proportional to x and y = 14 when $x = 2$, find y when $x = 7$	8.	If y is inversely proportional to x and y = 18 when $x = 3$, find x when $y = 6$	x = 9
9.	If y is inversely $y = 12$ proportional to x and $y = 24$ when $x = 4$, find y when $x = 8$	10.	If y is inversely proportional to x and y = 30 when $x = 5$, find x when $y = 50$	x = 3

- If y is inversely y = 4 proportional to x and y = 16 when x = 8, find y when x = 32
- 13. If y is inversely y = 8 proportional to x and y = 28 when x = 4, find y when x = 14
- 15. If y is inversely y = 16 proportional to x and y = 40 when x = 10, find y when x = 25

- If y is inversely proportional to x and y = 21 when x = 7, find x when y = 49
- If y is inversely x = 18 proportional to x and y = 36 when x = 6, find x when y = 12

MASTER QUESTIONS



M1. It takes 8 people 15 days to build a wall. How long would it take 12 people to build the same wall?

12.

14.

- M2. A factory can produce 1200 widgets in 6 days with 10 machines. How many days would it take to produce 1200 widgets with 15 machines?
- M3. A car travelling at 60 mph takes 4 hours to complete a journey. How long would it take if the speed increased to 80 mph?
- M4. A team of 5 workers can paint a house in 12 days. How many workers would be needed to paint the house in 6 days?
- M5. A water tank can be filled by 6 pipes in 8 hours. How long would it take to fill the tank if 12 pipes were used?