

m3 = 21 days to go!

1 (a) Write 2 prime numbers between 60 and 70

primes can be divided
nice only by 1 and
the number itself

Answer 61 and 67 [2]

(b) Which of these is both a square number and a cube number?

$1^2 = 1$ $4^2 = 16$ $6^2 = 36$ $8^2 = 64$ Answer 64 [1]
 $2^2 = 4$ $5^2 = 25$ $7^2 = 49$ $9^2 = 81$ $10^2 = 100$
 $3^2 = 9$

(c) Write $\frac{3}{8}$ as a decimal.

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3.3000} \end{array}$$

Answer 0.375 [1]


(d) What percentage is £9 of £16?

9 out of 16 $\frac{9}{16} = 0.5625$

Answer 56.25 % [2]

cube numbers

$1^3 =$  $= 1$

$2^3 =$  $= 2 \times 2 \times 2 = 8$

$3^3 = 3 \times 3 \times 3 = 27$

$4^3 = 4 \times 4 \times 4 = 64$

$5^3 = 5 \times 5 \times 5 = 125$

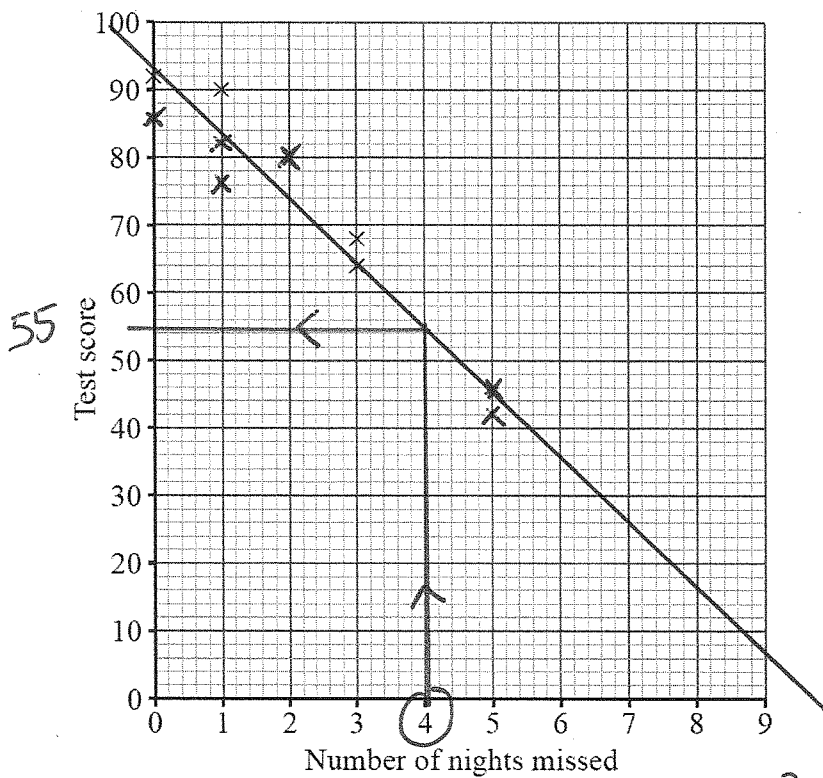
11 A group of pupils do a first aid course over 8 nights.

There is a test at the end of the course.

The table shows the number of nights each pupil misses and their test score.

Pupil	A	B	C	D	E	F	G	H	I	J
Number of nights missed	0	3	1	3	2	1	0	5	1	5
Test score	92	64	90	68	80	82	86	42	76	46

- (a) The first 4 points are plotted on the scatter graph.
Plot the last 6 points.



Each square = 0.2 [2]

- (b) Draw the line of best fit.

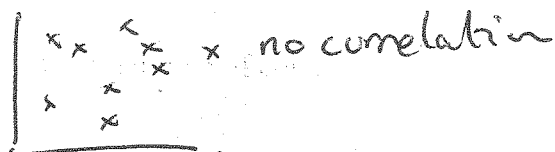
$\frac{1}{2}$ points on each side [1]

- (c) Another pupil missed 4 nights of the course.
Use the graph to estimate their test score.

use the graph

Answer 55 [1]

- (d) What type of correlation does your graph show?



Answer Negative [1]
correlation