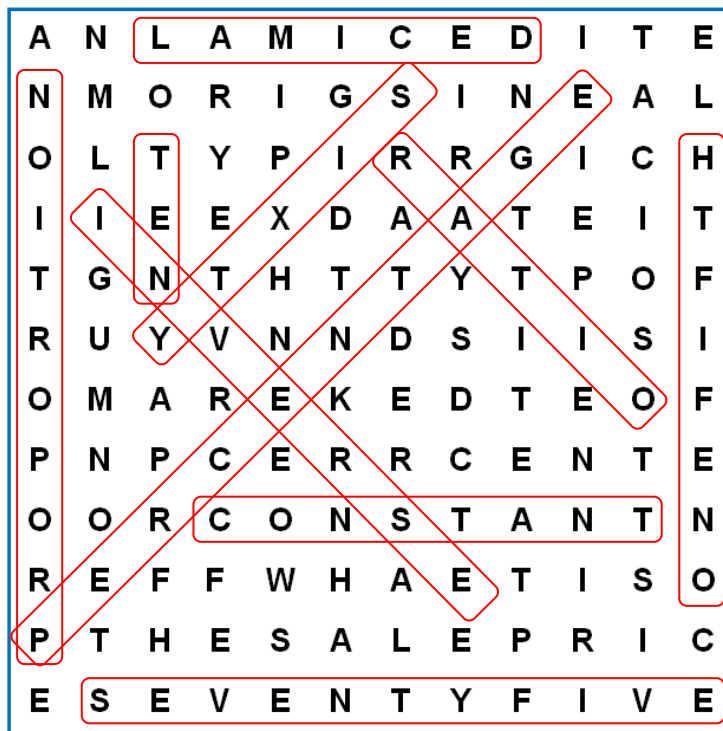


WORD SCRAMBLE (Answers)

Unit 8: Percentages. Proportionality



- a) A fraction written as a number of parts per 100. **PERCENTAGE**
- b) 0.25 is the **DECIMAL** equivalent of 25%.
- c) A **PROPORTION** compares the size of the part to the size of the whole.
- d) 20% of a quantity is the same as **ONE FIFTH** of that quantity.
- e) $\frac{3}{4}$ of a quantity is the same as **SEVENTY-FIVE** per cent of that quantity.
- f) If an item is decreased by 40%, the final price is **SIXTY** per cent of the original price.
- g) A **RATIO** compares the size of two portions of parts with each other.
- h) If the final price of an item is 110% of the original price, the item has been increased by **TEN** per cent.
- i) When an increase in one quantity means another quantity decreases in the same proportion, the quantities are in **INVERSE** proportion.
- j) If x and y are in direct proportion, then the division of x and y will be **CONSTANT**.

The letters not used in the word scramble make a word problem. Could you work it out?

A	N	L	A	M	I	C	E	D	I	T	E
N	M	O	R	I	G	S	I	N	E	A	L
O	L	T	Y	P	I	R	R	G	I	C	H
I	I	E	X	D	A	A	T	E	I	T	
T	G	N	T	H	T	T	Y	T	P	O	F
R	U	Y	V	N	N	D	S	I	I	S	I
O	M	A	R	E	K	E	D	T	E	O	F
P	N	P	C	E	R	R	C	E	N	T	E
O	O	R	C	O	N	S	T	A	N	T	N
R	E	F	F	W	H	A	E	T	I	S	O
P	T	H	E	S	A	L	E	P	R	I	C
E	S	E	V	E	N	T	Y	F	I	V	E

AN ITEM ORIGINALLY PRICED AT EIGHTY POUNDS IS MARKED TEN PER CENT OFF. WHAT IS THE SALE PRICE?

$$100\% - 10\% = 90\%$$

The sale price is 90% of the original price.

$$90\% \text{ of } 80 \text{ is } 0.90 \cdot 80 = 72$$

Solution: £72