

Name

Date



# CHRISTMAS MATH CHALLENGE 1D

In the word CHRISTMAS below, each letter has a particular value.  
So C is worth 0.1, and M is worth 0.7.



C	H	R	I	S	T	M	A	S
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.5



Work out the value of these words. The first one is done for you.

$$IT = 0.4 + 0.6 = 1.0$$

$$HAT = 0.2 + 0.8 + 0.6 =$$

$$IS =$$

$$HIT =$$

$$MIST =$$

$$MAT =$$

$$MATH =$$

$$STAIR =$$

Can you find words using the letters above which have these values?

$$1.5 =$$

$$1.2 =$$

$$1.1 =$$

$$1.7 =$$

$$1.8 =$$



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## ANSWERS

C	H	R	I	S	T	M	A	S
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.5

$$IT = 0.4 + 0.6 = 1.0$$

$$HAT = 0.2 + 0.8 + 0.6 = 1.6$$

$$IS = 0.4 + 0.5 = 0.9$$

$$HIT = 0.2 + 0.4 + 0.6 = 1.2$$

$$MIST = 0.7 + 0.4 + 0.5 + 0.6 = 2.2$$

$$MAT = 0.7 + 0.8 + 0.6 = 2.1$$

$$MATH = 0.7 + 0.8 + 0.6 + 0.2 = 2.3$$

$$STAIR$$

$$= 0.5 + 0.6 + 0.8 + 0.4 + 0.3 = 2.6$$

Can you find words using the letters above which have these values?

One or two example answers are given for each number - there may be more!

$$1.5 = \text{ASH} / \text{CAT} / \text{SIT}$$

$$1.2 = \text{CAR} / \text{ARC}$$

$$1.1 = \text{HIS}$$

$$1.7 = \text{THIS} / \text{RAT}$$

$$1.8 = \text{STIR} / \text{RASH}$$