## **Mathematical Team Game E**

## Coded Sentence

Fundamentally this is just a new way of testing and using the four rules of negative numbers. The questions have been printed without brackets as it seems less confusing. It might be best to point out and remind about the order of operations before starting. This is an activity best done without calculators. There are several different true statements that can be made from the ten words. Two are given below.

**Topics:** Negative numbers

**Ages:** 11 to 13

## SOLUTION:

-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11
Α	В	C	D	Е	F	G	Н	ı	J	K	L	M	N	0	P	Q	R	S	Т	U	V	W	Х	Υ	Z

1a	1b	1c	1d	1e
4	-6	9	5	10
S	ı	Х	Т	Υ

-2	-6	-1	6	4
M	ı	N	U	S

3a	3b	3c	3d	3e
5	-6	-2	-10	4
T	I	M	Е	S

4a	4b	4c	4d	4e	4F
-10	2	6	-14	-3	4
Е	Q	U	Α	L	S

5a	5b	5c	5d	5e
5	-7	3	-10	-10
Т	Н	R	Е	E

6a	6b	6c	6d	6e
-2	-6	-1	6	4
M	I	N	U	S

7a	7b	7c	7d
1	-3	6	4
Р	L	U	S

F	0	U	R
-9	0	6	3
8a	8b	8c	8d

9a	9b	9c	9d
-9	-6	7	-10
F	I	V	Е

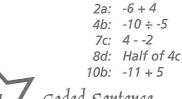
10a	10b	10c	10d	10e
5	-6	-2	-10	4
Т	1	M	Е	S

## MINUS THREE TIMES MINUS FOUR TIMES PLUS FIVE EQUALS SIXTY

There are other correct possibilities

e.g. MINUS THREE TIMES PLUS FOUR TIMES FIVE EQUALS MINUS SIXTY

am Game F 13. Mathematical Team Games



Coded Sentence



5e: -5 x 2 8b: -8 + 8 10c: Same as 2a Coded Sentence

2b: -3 x 2

7b: -1 x 3

9d: -12 + 2

1b: -10 - -4

3c: Same as 6a 6d: -2 x -3

4c: -11 +17

6e: Same as 1a

3a: -10 + 15

4a: -6 - 4

**Mathematical Team Game E** 

3b: 18 ÷ -3 5d: Same as 3d 8c: 8 + -2 10a: -10 ÷ -2

1a: 3 - -1

Coded Sentence



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5c: -9 + 12 2c: -5 ÷ 5 7d: Twice 4b 9c: -5 - -12

4d: -2 x 7

3d: -3 - 7

9b: -9 + 3

1e: -13 + 23

6c: Same as 2c 7a:  $-4 \div -4$ 

Coded Sentence



10d: Same as 4a

8a: 3 x -3

Coded Sentence

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Coded Sentence

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4e: 12 ÷ -4 2d: 3 - -3 1d: -20 ÷ -4

4f: -9 + 13

2e: -2 x -2 5b: Half of 4d

6a: 8 ÷ -4

9a: Same as 8a

10e: 6a squared

Coded Sentence

1c: -3 x -3 3e: -1 +5 5a: Half of 1e 6b: -8 - -2

2º7

Coded Sentence

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Coded Sentence

Write out the alphabet and then under each letter write a number starting with A = -14 up to Z = +11.

These values are needed to make ten words from the answers to the sums.

Coded Sentence

1a,1b,1c,1d,1e etc. spells out a word. Arrange these ten words in at least one

way to make a true statement.

Each of the ten sets of coded letters,



Coded Sentence