

The following essay describes solar storms. The words that belong in the missing blanks can be found by solving the ten number sentences.

Look in the Word Bank and match the calculated number to the correct answer.

Fill-in the blank with the word you found to complete the essay and answer a question about solar storms!

Our sun is a very predictable star. Each day it rises and sets as the world turns upon
its axis, and warms the Earth making life possible. But the sun is also a stormy star. It
produces 1) and incredible explosions of 2) almost every day.
Sometimes, its entire surface is speckled by 3) that come and go every 11
years. In 2013, the sun was at the peak of its maximum stormy activity. This means that many
more flares and explosions of gas were happening compared to other times in the 11-year
cycle. Solar flares are bursts of intense 4) light that can cause problems for
radio communication on Earth. They also heat up the 5) and cause it to expand
into space. About 1000 of these flares were detected during the first 8 months of 2013.
Occasionally the sun ejects billion-ton clouds of 6) called
7) or CMEs. Traveling at over a million miles an hour, they can
reach Earth in only a few 8) When they arrive, they cause problems for satellites
and our electric power grid, but they also cause beautiful 9) in the northern and
southern skies. Most CMEs are not directed towards earth and are completely
10)
So, even though the sun looks the same every day, it really is a very stormy star that
can sometimes create unpleasant surprises for us here on Earth!

Word Bank

-44 -15 -27 -40	asteroids aurora ultraviolet energy rocks harmful	+1 +5 0 -48	•	+3 +44 -5 +24	sunspots
	harmful flares		plasma comets	-3 -7	coronal mass ejections prominences

Solve these problems to get the Word Bank number key.

1)	1+(1-3)-(5-8)+(-6+2)	=	6) -2(+2(-3(+2(-3+1))))	=
,	8(3-2)-2(3-8)+5(-6-3)	=	7) -8/2 +(3+2)/(8-3)	=
3)	(1-3)(-5+2)(8-6)(3-1)	=	8) -7+23-6-(-10)+(-3)(4+1)	=
4)	3(2-6)+(-8+4)-(4-3)	=	9) 12/(-1/4) + (-36)/(-9)	=
5)	5(-3+2)-2(6-2)-(+7-20)	=	10) (-4)2 + 21/3 + 4	=

Solve these problems to get the Word Bank number key.

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1)
       1+(1-3)-(5-8)+(-6+2)
                                  -2
                                              6) -2(+2(-3(+2(-3+1))))
                                                                        = -48
2)
      8(3-2)-2(3-8)+5(-6-3)
                                 -27
                                              7) -8/2 +(3+2)/(8-3)
                                                                        = -3
3)
      (1-3)(-5+2)(8-6)(3-1)
                                 +24
                                              8) -7+23-6-(-10)+(-3)(4+1) = +5
4)
      3(2-6)+(-8+4)-(4-3)
                             = -17
                                              9) 12/(-1/4) + (-36)/(-9)
                                                                        = -44
      5(-3+2)-2(6-2)-(+7-20) =
                                 0
                                              10) (-4)2 + 21/3 + 4
                                                                         = +3
5)
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The words are

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Line 1 = -2 = flares

Line 2 = -27 = energy

Line 3 = +24 = sunspots

Line 4 = -17 = X-ray

Line 5 = 0 = atmosphere

Line 6 = -48 = gas

Line 7 = -3 = coronal mass ejections

Line 8 = +5 = days

Line 9 = -44 = aurora

Line 10 = +3 = harmless
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Our sun is a very predictable star. Each day it rises and sets as the world turns upon its axis, and warms the Earth making life possible. But the sun is also a stormy star. It produces 1)____flares____ and incredible explosions of 2)___energy___ almost every day. Sometimes, its entire surface is speckled by 3)__sunspots____ that come and go every 11 years. In 2013, the sun was at the peak of its maximum stormy activity. This means that many more flares and explosions of gas were happening compared to other times in the 11-year cycle. Solar flares are bursts of intense 4)___X-ray___ light that can cause problems for radio communication on Earth. They also heat up the 5)___atmosphere_ __ and cause it to expand into space. About 1000 of these flares were detected during the first 8 months of 2013. Occasionally the sun ejects billion-ton clouds of 6) gas called 7) coronal mass ejections or CMEs. Traveling at over a million miles an hour, they can reach Earth in only a few 8)____days____. When they arrive, they cause problems for satellites and our electric power grid, but they also cause beautiful 9)_aurora____ in the northern and southern skies. Most CMEs are not directed towards earth and are completely 10)___harmless_ So, even though the sun looks the same every day, it really is a very stormy star that can sometimes create unpleasant surprises for us here on Earth!