A Book Signing

Graeme Base was signing books at Barnes and Noble! He is such a wonderful artist and author that the wait was hours long. He was signing copies of <u>Animalia</u>, <u>The Sign of the Seahorse</u>, and <u>The Eleventh Hour</u>. Each person could only buy one copy of each title but could buy more than one title. A local news station filmed the signing for an hour. During that time, they made the following observations:

- * Twenty-nine copies of Animalia were sold.
- * The nineteen people who bought <u>The Eleventh Hour</u> probably love a good mystery!
- * The twenty people who bought <u>The Sign of the Seahorse</u> will love this tale of greed and high adventure!
- * Seven people thought this was a once in a lifetime opportunity and bought all three!
- * Animalia was very popular, so it wasn't surprising that fourteen people bought Animalia but not The Eleventh Hour or The Sign of the Seahorse.
- * Three people bought <u>Animalia</u> and <u>The Eleventh Hour</u> but not <u>The Sign of the Seahorse</u>.
- * Seventeen people bought more than one book.

How many people bought a book or books during that hour? _	
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A Book Signing

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clue 1:
       A+B+D+E=29
clue 2: D+E+F+G=19
clue 3: B+C+E+F=20
clue 4: E=7
clue 5: A=14
clue 6: D=3
            *(from clue 1)
14+B+3+7=29
            so B=5
       B+D+E+F=17; 5+3+7+F=17
clue 7:
            so F=2
       *(from clue 2) 3+7+2+G=19
            so G=7
       *(from clue 3) 5+C+7+2=20
            so C=6
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Since the question only asks for the number of people who bought books, and only those three books were available, H=0.

$$A+B+C+D+E+F+G+H=44$$

Forty-four people bought books during that hour.