Arithmetic sequence worksheet
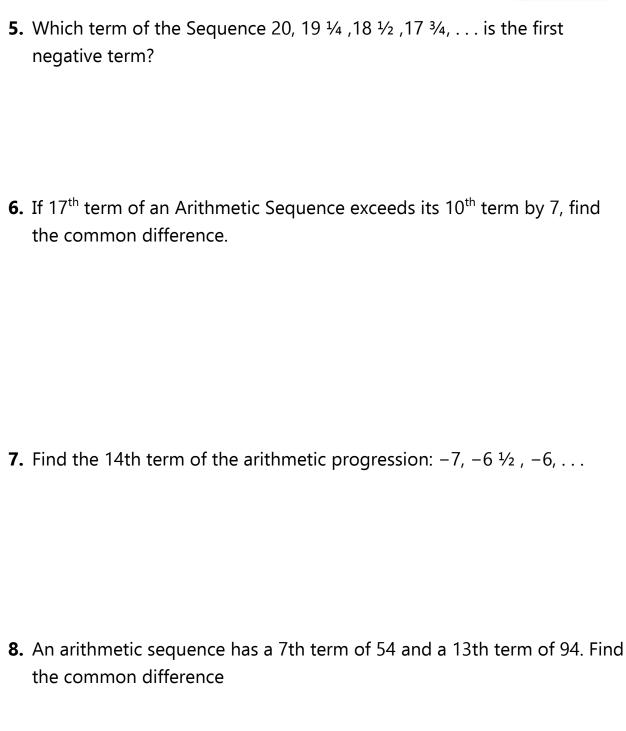
1. Check if the sequences given below, are arithmetic sequences. Write down their common difference.

   (a) 5, 10, 15, 20,25......

   (b) 2, 2, 2, 2,2......

   (c) 2, 4, 8, 16,32......

   (d) 3, 14, 25, 36......

2. Find the 20th term of the Arithmetic sequence 3, 8, 13, ...253

3. Find the Arithmetic sequence whose 10th term is 5 and 18th term is 77

4. An Arithmetic sequence consists of 60 terms. If the first and the last terms be 7 and 125 respectively, find 32nd term.

5. Which term of the Sequence 20, 19 ¼ ,18 ½ ,17 ¾, . . . is the first negative term?

6. If 17th term of an Arithmetic Sequence exceeds its 10th term by 7, find the common difference.

7. Find the 14th term of the arithmetic progression: −7, −6 ½ , −6, . . .

8. An arithmetic sequence has a 7th term of 54 and a 13th term of 94. Find the common difference

Answers:

1) G
   a) d=5
   b) d=0
   c) no
   d) d=11
2) 98
3) -76,-67,-58,-49,...
4) 69
5) 28
6) d=1
7) -0.5
8) d=4