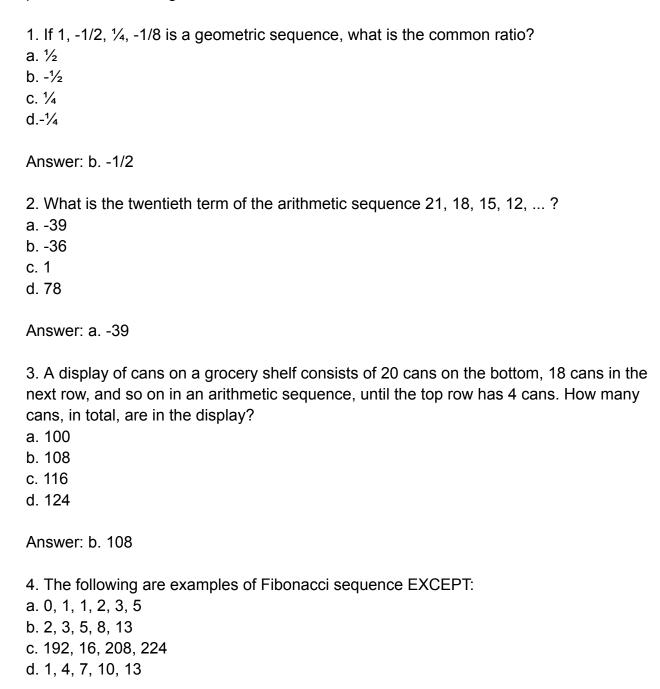
NAT Grade 10 Reviewer

Mathematics Part 1

MULTIPLE CHOICE. Read each statement carefully and choose the letter that best corresponds to the statement. Write ONLY the letter of your answer on the space provided for at the right.



Answer: d. 1, 4, 7, 10, 13

5. Which among the following is NOT a geometric sequence? a. 5, 10, 20, 40 b. -11, 22, -44, 88 c. 2, 6, 18, 54 d. 3, 8, 13, 18 Answer: d. 3, 8, 13, 18 6. If 1, -1/2, 1/4, -1/8 is a geometric sequence, what is the common ratio? a. ½ b. -½ C. 1/4 d. -1/4 Answer: b. -1/2 7. What is the sum of the first 30 terms of the arithmetic sequence 50, 45, 40, 35? a. -675 b. 275 c. 675 d. 3675 Answer: d. 3675 8. Find the sum of the geometric sequence 3, 6, 12, 24, 48, 96. a. 189 b. -189 c. 190 d. -190 Answer: a. 189 9. Which among the following is the harmonic sequence of a sequence 3, 8, 13, 18? a. -3, -8, -13, -18

Answer: d. NONE OF THE ABOVE

b. 1/3, 1/8, 1/13, 18 c. 3.0, 8.0, 13.0

d. NONE OF THE ABOVE

10. What is the next term of the sequence 3, 4, 7, 11, 18, 29? a. 46 b. 47 c. 48 d. 49
Answer: a. 46
11. Which of the following is an arithmetic sequence? a. 21, 18, 15, b6, -2, 2 c. 4, 2, 0 d. 80, 20, 5
Answer: a. 21, 18, 15,
12. Find the 27th term of the arithmetic sequence -4, -1, 2, 5, 8. a. 70 b. 72 c. 74 d. 76
Answer: c. 74
13. QAR, RAS, SAT, TAU, a. UAV b. UAT c. TAS d. TAT
Answer: a. UAV
14. What is the sum of the eleventh of the arithmetic sequence 7, 12, 17, 22, ? a. 154 b. 295 c. 795 d. 1090

Answer: b. 295

15. What is the thirty-second term of tha. 143b. 148c. 153d. 167	ne arithmetic sequence -12, -7, -2, 3, ?
Answer: c. 153	
16. Find the tenth term of the arithmetic a. 40 b. 42 c. 44 d. 46	c sequence 1, 6, 11, 16
Answer: c. 46	
17. What is the common difference of ta8 b. 8 c14 d. 14	he sequence 3, 11, 19, 27, 35?
Answer: b. 8	
18. The fifth term of an arithmetic sequential first term? a19 b13 c9 d. 6	ence is 11 and the tenth term is 41. What is the
Answer: c9	
19. What is the fiftieth term of the arithma. 53 b. 151 c. 199 d. 203	metic sequence 3, 7, 11, 15?

Answer: c. 199

20. Which among the following is the harmonic sequence of a sequence 3, 8, 13, 18?

a. -3, -8, -13, -18

b. 1/3, 1/8, 1/13, 18

c. 3.0, 8.0, 13.0

d. NONE OF THE ABOVE

Answer: b. 1/3, 1/8, 1/13, 18

21. If 1, -1/2, $\frac{1}{4}$, -1/8 is a geometric sequence, what is the common ratio?

a. ½

b. -½

C. 1/4

d. -1/4

Answer: b. -1/2

22. What is the fiftieth term of the arithmetic sequence 3, 7, 11, 15...?

a. 53

b. 151

c. 199

d. 203

Answer: c. 199

23. What is the tenth term of the geometric sequence 1, 2, 4, 8, ...?

a. 512

b. 256

c. 1024

d. 128

Answer: a. 512

24. What is the sum of the first 30 terms of the arithmetic sequence 50, 45, 40, 35?

a. -675

b. 275

c. 675

d. 3675

Answer: d. 3675 25. Find the 7th term of the sequence 2, 6, 18, 54, ... a. 4374 b. 5832 c. 6561 d. 8748 Answer: c. 6561 26. What is the sum of the first 30 terms of the arithmetic sequence 50, 45, 40, 35? a. -675 b. 275 c. 675 d. 3675 Answer: d. 3675 27. If 1, -1/2, $\frac{1}{4}$, -1/8 is a geometric sequence, what is the common ratio? a. ½ b. -½ C. 1/4 d. -1/4 Answer: b. -1/2 28. What is the sum of the eleventh of the arithmetic sequence 7, 12, 17, 22, ...? a. 154 b. 295 c. 795 d. 1090 Answer: b. 295 29. The following are examples of Fibonacci sequence EXCEPT: a. 0, 1, 1, 2, 3, 5 b. 2, 3, 5, 8, 13 c. 192, 16, 208, 224

d. 1, 4, 7, 10, 13

Answer: d. 1, 4, 7, 10, 13

30. What is the 12th term of the geometric sequence 5, 10, 20, 40, \dots ?

a. 20480

b. 10240

c. 5120

d. 40960

Answer: b. 10240