

Warm Up:

9/3

58. What is the sum of the first 4 terms of the arithmetic sequence in which the 6th term is 8 and the 10th term is 13 ?

F. 10.5

G. 14.5

H. 18

J. 21.25

K. 39.5

Feb 27-7:39 AM

Solutions to P.W.: Worksheet #1 - 22

1. a. no

b. yes; $d = 2$

c. yes; $d = -3$

2. a. yes; $a_n = -4 + 8n$

b. no

c. yes; $a_n = 8 - 4n$

3. a. yes; $a_n = a_{n-1} + 0.5$

b. yes; $a_n = a_{n-1} + 1$

c. no

4. a. $a_{15} = 74$

b. $a_{20} = 90$

c. $a_{18} = -23$

5. D

6. \$900

Dec 31-10:07 PM

Solutions to P.W.:Worksheet #1 - 22

7. $a_1 = 2, a_2 = 8, \text{ and } a_3 = 14$

8. a. $a_{12} = 42$

b. $a_{10} = 51$

c. $a_{20} = -68$

9. $n = 11$. Sample explanation: I divided -23.7 by the common difference of 4.7 ; the result is between 5 and 6 , so it will take 6 more terms to get a positive value.

10. $\frac{2}{3}, \frac{5}{6}, 1, \frac{7}{6}$

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Solutions to P.W.:Worksheet #1 - 22

11. $a_n = -3.1 + (n - 1)9.2; a_2 = -6.1,$
 $a_3 = -15.3, a_4 = -24.5$

12. a. $S_{10} = 265$

b. $S_{12} = 432$

c. $S_{18} = 198$

13. a. $S_6 = 36$

b. $S_{10} = 100$

c. $S_{12} = 144$

d. $S_n = n^2$

14. C

15. a. \$47,500

b. \$48,500

c. \$215,000

d. \$212,500

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Solutions to P.W.:Worksheet #1 - 22

- *16. $d = 4$
17. $d = -10; S_7 = 119$
18. $a_1 = 6.24; S_9 = 70.56$
19. a. 9 prizes
 b. \$2700

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Solutions to P.W.:Worksheet #1 - 22

16. $d = 4$
17. $d = -10; S_7 = 119$
18. $a_1 = 6.24; S_9 = 70.56$
19. a. 9 prizes
 b. \$2700

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Solutions to P.W.:Worksheet #1 - 22**20.** B

21. $S = 75(1 + 150) = 11,325$

22. $S_n = \frac{n}{2}(a_1 + a_n) = \frac{5}{2}(20 + 12) = 80$

5

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W.A.L.T.:

Apply our understanding of sequences and series.

W.A.S.I.:

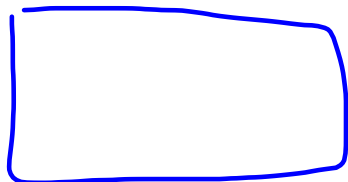
We can struggle with problems and persevere in solving them.

Mar 7-9:45 AM

Notes!!!

$$3n + 1$$

$$3(n+1)$$



$$\sum 3n + 1$$

$$\sum (3n + 1)$$

Dec 31-10:01 PM

Notes!!!

23c)

$$\sum_{j=5}^{15} (5-j)$$

$$j=5$$

$$S_{15} - S_4$$

$$\sum_{j=1}^{15} S_{15}$$

$$\frac{n}{2}(a_1 + a_n)$$

Dec 31-10:01 PM

In Class Work:

Everyone

#11 - 22



We are working towards

#23 - 30



Need help w/ an

#1 - 10

Mar 7-1:33 PM

Today's Activities:

- Workday

P.W. for tonight:

- Finish Worksheet from 11 - 30

Dec 31-9:59 PM