



Name: _____

Team Code: _____

2015 Lake OPR Mathematical Competition

1. **What is the value of $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4} \times \dots \times \frac{1}{10}$?**

11. **What is the value of $1 + 2 + 3 + \dots + 100$?**

1. **What is the value of $1 + 2 + 3 + \dots + 100$?**

12. **What is the value of $1 + 2 + 3 + \dots + 100$?**

2. **What is the value of $1 + 2 + 3 + \dots + 100$?**

3. **What is the value of $1 + 2 + 3 + \dots + 100$?**

13. **What is the value of $1 + 2 + 3 + \dots + 100$?**

4. **What is the value of $1 + 2 + 3 + \dots + 100$?**

14. **What is the value of $1 + 2 + 3 + \dots + 100$?**

5. **What is the value of $1 + 2 + 3 + \dots + 100$?**

15. **What is the value of $1 + 2 + 3 + \dots + 100$?**

16. **What is the value of $1 + 2 + 3 + \dots + 100$?**

6. **What is the value of $1 + 2 + 3 + \dots + 100$?**

7. **What is the value of $1 + 2 + 3 + \dots + 100$?**

17. **What is the value of $1 + 2 + 3 + \dots + 100$?**

8. **What is the value of $1 + 2 + 3 + \dots + 100$?**

18. **What is the value of $1 + 2 + 3 + \dots + 100$?**

Radius of Earth = 6370 km
Radius of Sun = 696,000 km

1. _____ 2. _____

3. _____ 4. _____ Connected in _____

5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____ 13. _____ 14. _____ 15. _____ 16. _____ exact form.

1

10

12

13.5125

Shuttle orbit

16

4

-16

1

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

Must be in this

$\frac{1}{2}$

Must be this

20.

1

Must be this

40

10.

7

1000

1000

1000

1000

1000