**C**

2) GCF of 63 and 81

1,3,7,9,21,63

1,3,9,27,81

9 is the GCF **C**

3) (4,3), (5,6)

Slope =

=

Point Slope Form:

**A**

4) Diameter: 8 in

area of circle:

½ diameter= radius 1/2 (8) = 4

**C**

5)

**D**

6) 630- Prime Factorization:

**A**

7) 7356: 7+3+5+6= 21

21 is divisible by 3

3334: 3+3+3+4=13

13 is NOT divisible by 3

8570: 8+5+7+0=20

20 is NOT divisible by 3

9275: 9+2+7+5= 23

23 is NOT divisible by 3

**A**

8) 729, 243, 81, \_\_\_\_, \_\_\_\_\_

**A**

9)

Larger is 7- **B**

10)

**B**

11) (3,2) start point

3+6=9 2+8=10

(9,10) end point

Distance Formula: 

**A**

12) a★b

5🞴3

**C**

13) .00000056 move to the left 7 decimal places

**B**

14) (3,2) and (9,10)

midpoint: 

(6,6)

= **E**

15)

**C**

16) 15533

15533

15533

15533

15527

81 = -111 **E**

17) units digits (starting with ) repeat in pattern: 1, 3, 9, 7

Divide power by 4 and if the Remainder is 0-your answer is 1, 1- your answer is 3, 2-your answer is 9, 3- your answer is 7.

20/4=5 Remainder=0 Unit Digit=1 **A**

**D**

**D**

1. Favorable: 1 day

Unfavorable: 365 days

1:365

**A**

**D**

All cancel, leaving

**C**

**A**

224

**C**

**A**

1. The degree of a polynomial is equivalent to the highest power (of a variable) in the polynomial. Thus, the answer is 13.

**C**

**E**

1. Must arrive between 4:24 and 4:25

(feet in 1.5 miles)

(inches in 1.5 miles)

(seconds it will take)

(minutes it will take)

(seconds)

It will take Arya 26 minutes and 24 seconds to get to the dining room.

26 minutes and 24 seconds before 4:25 is 3:58:36

Arya must leave at 3:58 p.m. She will arrive at 4:24:24.

**B**

**D**

**C**