

Year 2 Homework Answer

Module 12: Permutation

1.

a) 35; 53; 37; 73; 57; 75

b) 50; 59; 95; 90

2.

16; 18; 61; 68; 81; 86

3.

Hina Father Mother; Hina Mother Father;

Father Mother Hina; Father Hina Mother;

Mother Father Hina; Mother Hina Father.

4.

A-B; A-C; B-C

3 rounds

5.

A, B, C, D, E, F

A-B; A-C; A-D; A-E; A-F

B-C; B-D; B-E; B-F

C-D; C-E; C-F

D-E; D-F

E-F

15 times

6.

Italian Sausage - Chocolate pie; Italian Sausage - Strawberry cake

BBQ chicken - Chocolate pie; BBQ chicken - Strawberry cake

Chinese Noodle - Chocolate pie; Chinese Noodle - Strawberry cake

6 combinations

7.

12	9	24
27	15	3
6	21	18

8.

1 – 6

2 – 5

3 – 4

9.

a) 358; 385; 583; 538; 835; 853

b) 456; 465; 450; 405; 460; 406;

546; 564; 540; 504; 560; 506;

645; 654; 640; 604; 650; 605

c) 4560; 4506; 4650; 4605; 4056; 4065

5460; 5406; 5640; 5604; 5046; 5064

6450; 6405; 6540; 6504; 6045; 6054

10.

a) i. 3 vowels: A, I, U

ii. 4 consonants: S, T, R, L

iii. Sat; Sit; Art; Rat; Its...

Answers may vary

b) A; E; O

11.

TKJ; TJK; KTJ; KJT; JKT; JTK

12.

ABC, ACB, BAC, BCA, CAB, CBA

6 combinations

13.

P1 – S1; P1 – S2; P1 – S3

P2 – S1; P2 – S2; P2 – S3

6 combinations