

**Factorial**

**Part - A**

1) Express  $43!$  in terms of  $42!$

2) Express  $85!$  in terms of  $81!$

**$43! = 43 \cdot 42!$**

3) Express  $92!$  in terms of  $87!$

4) Express  $14!$  in terms of  $10!$

5) Express  $35!$  in terms of  $21!$

\_\_\_\_\_

Write in simplest form

1)  $\frac{34 \cdot 33 \cdot 32!}{34 \cdot 33 \cdot 32!}$

**$\frac{34 \cdot 33 \cdot 32!}{34 \cdot 33 \cdot 32!}$**

3)  $\frac{60 \cdot 59 \cdot 58 \cdot 57 \cdot 56 \cdot 55!}{60 \cdot 59 \cdot 58 \cdot 57 \cdot 56 \cdot 55!}$

4)  $\frac{41 \cdot 40 \cdot 39 \cdot 38 \cdot 37!}{41 \cdot 40 \cdot 39 \cdot 38 \cdot 37!}$

5)  $\frac{71 \cdot 70!}{71 \cdot 70!}$

6)  $\frac{57 \cdot 56 \cdot 55 \cdot 54!}{57 \cdot 56 \cdot 55 \cdot 54!}$

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Name : \_\_\_\_\_

**Answer key**

**Factorial**

Sheet 2

**Part - A**

1) Express 43! in terms of 42!

**43! = 43.42!**

2) Express 85! in terms of 81!

**85! = 85.84.83.82.81!**

3) Express 92! in terms of 87!

**92! = 92.91**

4) Express 14! in terms of 10!

**.13.12.11.10!**

5) Express 35! in terms of 21!

**35! = 35.34**

in terms of 21!

**23.22.21!**

Write in simplest form

1) 34.33.32!

**34.33.**

**.4.3.2! = 7!**

3) 60.59.58.57.56.55!

**60.59.58.57.56.55! = 60!**

4) 41.40.39.38.37!

**41.40.39.38.37! = 41!**

5) 71.70!

**71.70! = 71!**

6) 57.56.55.54!

**57.56.55.54! = 57!**

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