Summations and Factorials Practice

Summations

Use the following values for 1 - 3: $x_1 = 2$, $x_2 = 4$, $x_3 = 3$

1.
$$\Sigma x_i =$$

2.
$$\sum x_i^2 =$$

3.
$$3 \times \Sigma x_i =$$

Factorials

4. Express the following in factorial notation:

5. Match each expression on the left with an equivalent expression on the right.

Α	14!
	13!
В	52!
	51!
C	101!
	99!
D	20×19!
Е	90×8!
F	30×4!

Letter		
	1	10100
	2	6!
	3	52
	4	10!
	5	14
	6	20!

6. Determine the value for each expression. Simplify fully before using a calculator.

a)
$$\frac{8!}{5!}$$

b)
$$2 \times \frac{5!}{2!3!}$$