Lower 6 Chapter 8

Binomial Expansion

Chapter Overview

1. Pascal’s Triangle

2. Factorial Notation

3. Binomial Expansion

4. Using Expansions for Estimation



Pascal’s Triangle:

Starter

1. Expand
2. Expand
3. Expand
4. Expand
5. Expand

What do you notice about the powers of a and b?

Example

Find the expansion of

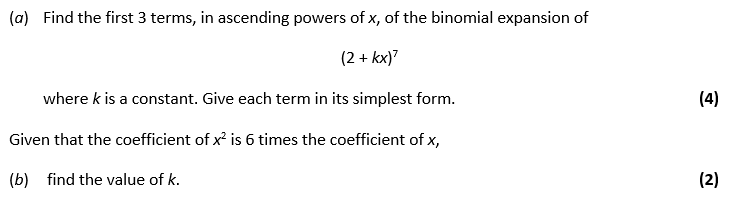
Example

Find =

Finding a single term example:

The coefficient of in the expansion of is 720. Find the possible value(s) of the constant .

Test Your Understanding



**Extension**

*[MAT 2009 1J]*

The number of pairs of positive integers which solve the equation:

is:

1. 0

Exercise 8A Page 161