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Name:_

Class:

WORKSHEET

13.2 Protein synthesis

- **1** On the diagram below label the following:
 - mRNA
 - tRNA
 - DNA
 - ribosome
 - amino acid
 - nucleotide
 - peptide bond
 - nuclear pore.





- **2** Annotate the above diagram to show what happens during protein synthesis.
- **3** Make summary notes for:
 - **a** Transcription

b Translation

4 What are the differences between DNA and RNA?

5 Where are the ribosomes found in the cell?

6 Define 'gene expression'.



7 What are some of the functions of proteins within the cell?

- 8 How many protein molecules can one ribosome produce per second?
- **9** How is protein synthesis related to the synthesis of lipids?