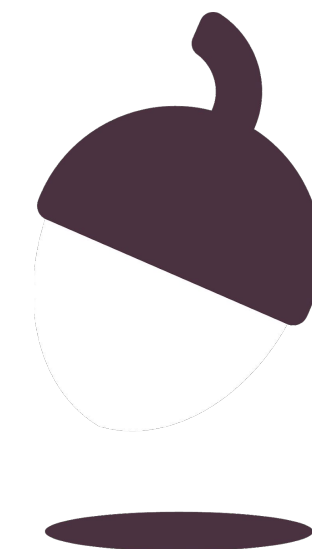


Combined Science Higher - Biology - KS4
Homeostasis and Response

Artificial Control of Fertility - Higher

Miss Ray



OAK
NATIONAL
ACADEMY

**Which hormones are used
in most fertility treatments?**



Which hormones are used in most fertility treatments?

Answer

FSH and LH



Describe the process of IVF. [4]

Keywords: FSH, LH, egg, fertilised, embryo, uterus



Answer

1. Mother is given **FSH** and **LH** to stimulate **egg maturation** and **ovulation**.
2. Eggs are collected and **fertilised** by sperm from the father in a **petri dish**.
3. **1 or 2** of the developing **embryos** are inserted back into the mother's **uterus**.



Using data

Age of women in years	Under 35	35 – 40	40+
Number of IVF treatments	135.0	100.0	24.0
Success rate (%)	43.0	30.0	13.0

Example questions

- 1. Calculate how many successful IVF treatments there were in women between the ages of 35 and 40.
- 2. Calculate how many successful IVF treatments there were in women over 40.



Using data

Age of women in years	Under 35	35 – 40	40+
Number of IVF treatments	135.0	100.0	24.0
Success rate (%)	43.0	30.0	13.0

Example questions

1. Calculate how many successful IVF treatments there were in women between the ages of 35 and 40.

$100 \times 0.3 = 30$ successful IVF treatments

2. Calculate how many successful IVF treatments there were in women over 40.

$24 \times 0.13 = 3.12 = 3$ successful IVF treatments

