

Milestones Worksheet

1. The first 8 weeks of a developing human's life when most major body systems develop is called the _____.
2. Human development begins at _____.
3. A zygote's 46 chromosomes make up a new individual's complete genetic blueprint. This blueprint resides in tightly coiled molecules called _____.
4. The heart begins to beat at _____.
5. Brainwaves have been recorded as early as _____.
6. At 8 weeks, the brain is highly complex and constitutes _____ of the embryo's total body weight.
7. During the first 8 weeks, the human embryo has grown from a single cell into the nearly _____ cells which form over _____ distinct anatomical structures.
8. Ten weeks after fertilization, patterns unique to each individual appear. They are _____.
9. By _____ from fertilization external genitalia can be distinguished as either male or female.
10. Although movement begins in the 6-week embryo, a pregnant woman first senses fetal movement between 14 and 18 weeks. Traditionally, this event has been called _____.
11. From 19 weeks, fetal movement, breathing activity, and heart rate begin to follow daily cycles called _____.
12. By 20 weeks, the _____ within the fully developed inner ear has reached adult size, allowing the fetus to respond to a growing range of sounds.
13. By 21 to 22 weeks after fertilization, the lungs gain some ability to breathe air, which makes survival outside the womb possible for some fetuses. This is considered the age of _____.
14. As early as 27 weeks, the fetus' pupils respond to _____.
15. The _____ initiates labor by releasing large amounts of a hormone called _____.

Answers:

1. embryonic period
2. fertilization
3. DNA
4. 3 weeks and 1 day
5. 6 weeks and 2 days
6. almost half
7. one billion, four thousand
8. fingerprints
9. 11 weeks
10. quickening
11. circadian rhythms
12. cochlea
13. viability
14. light
15. fetus, estrogen