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The Reproductive System

1. Use the dictionary to look up the meanings of the words below. Write the definitions in the space beside each word.

species	
hormone	
fetus	
navel	
estrogen	
testosterone	

2. Use the words from Question 1 above to complete the statements. Not all words will be used.

- a) The male reproductive hormone is called _____.
- b) The female reproductive hormone is called _____.
- c) Cats, humans and bald eagles are all examples of _____.
- d) Some people call it a belly button but its proper name is _____.
- e) A developing human still in its mothers's body is called a _____.



The Reproductive System

The human reproductive system is important for one good reason: it creates new people. Not every person has children, but some people must have children for our species to survive into the future. The way humans reproduce is called **sexual reproduction**.



The reproductive system has three main jobs:

- 1. To create **egg** and **sperm** cells
- 2. To grow the developing baby
- 3. To make chemicals called hormones

STOP Why is human reproduction important?

The **male** body makes, or **produces**, sperm cells. The **female** body produces egg cells. These cells are smaller than a grain of sand. **Fertilization** happens when the egg and sperm cells join together in the female body. Then, cells start to divide and grow. Finally, these cells will become a baby.

An unborn baby (or **fetus**) grows inside its mother's body for nine months. It begins as just two cells. Then, these two cells divide into four cells. The four cells become eight cells. The cells keep growing and dividing. As time passes, the fetus looks more and more like a person. Every part of the human body is grown in this time. The baby grows arms and legs. All its inside organs are formed and grow. After three months of growth, the fetus is only about three inches long. It starts to move more and more. The fetus gets food and oxygen from the mother's body. These come through a tube, called the **umbilical cord**. This cord was attached to you at your belly button! Your belly button is also called your **navel**. After nine months the baby is born. A newborn baby is about 20 inches long. It weighs seven to nine pounds.

The reproductive system also makes **hormones**. Hormones are special chemicals that help our bodies grow and stay healthy. Female and male bodies look different from each other. This is partly because male and female hormones are different. The main female hormone is called **estrogen**. The main male hormone is called **testosterone**.



The Reproductive System

1. Fill in each blank with a term from the list. There will be one term left over.

- umbilical cord sperm fertilized small human fetus
- nine months ninety days navel egg belly button

Our reproductive system creates new _____ life. The female body produces an _____ cell. It is _____ by the male's _____ cell. These two cells join together but are still very _____. They grow to become a newborn baby in _____. The growing baby lives inside its mother. Inside her body, it is called a _____. The fetus gets its food through a tube in its stomach. This tube is called the _____. It is attached to the inside of the mother, too. When we are born, the umbilical cord is cut off. This leaves a spot on our stomach called our _____ or _____.

2. Circle **T** if the statement is TRUE or **F** if it is FALSE.

- T F a) Egg and sperm cells are the size of a pea.
- T F b) Human babies are made through sexual reproduction.
- T F c) Hormones are special chemicals that help us grow.
- T F d) A fetus is another name for a developing baby.
- T F e) A fetus does not need to eat until it is born.
- T F f) The male reproductive hormone is called testosterone.
- T F g) The female reproductive hormone is called estrogen.



The Reproductive System

3. How do the egg and sperm cells become a baby?

4. How does the fetus breathe and get its food before it is born?

Extension & Application


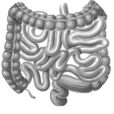






5. We have read that **hormones** help us grow and stay healthy. We have also learned about two different kinds of hormones - estrogen and testosterone. Do some research to learn more about **what our hormones do**. Look for your information in books from the library or in an encyclopedia. List the names of the hormones that you read about. Record your information in a t-chart like this:

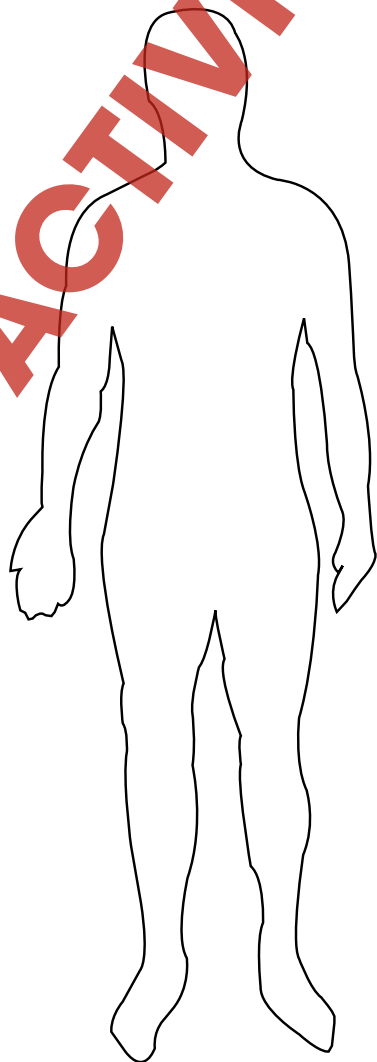
Hormone Name	What It Does

6. Write a **creative story** about seeing the world as a baby. How would you find out about the world? Use what you know about the senses to write this story.

Pin the Organ on the Body

Here is an outline of the human body. To the left are pictures of important **ORGANS** in the body. Your task is to **CUT OUT** each organ and to **PASTE** it on the body where it belongs. You may use information from the reading passages, the Internet, or other resource materials to find the answers. (Hint: some of the organs may overlap!)

- a) liver 
- b) intestines 
- c) esophagus 
- d) bladder 
- e) heart 
- f) lungs 
- g) stomach 
- h) kidneys 



Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, or diagonally, and some are even written backwards.

- | | | |
|------------------|-------------|----------------|
| circulate | fetus | immunity |
| artery | involuntary | carbon dioxide |
| vein | heart | saliva |
| urine | chamber | stomach |
| capillary | nutrients | esophagus |
| pressure | abdomen | kidneys |
| excretory system | plasma | intestine |
| oxygen | platelet | colon |
| bladder | clot | enzymes |
| digestion | | |

A	W	S	T	Z	C	S	D	F	T	G	B	N	H	Y	U	M	K
M	K	L	Y	F	H	E	A	R	T	R	F	V	S	D	R	E	X
C	S	T	O	M	A	C	H	H	C	J	R	C	U	L	A	T	E
Z	A	Q	X	S	M	R	F	V	B	N	X	D	E	R	H	S	F
C	D	E	Y	F	B	T	G	E	N	T	U	J	M	K	N	Y	I
N	P	T	G	U	E	J	K	L	N	E	W	F	E	T	U	S	N
W	L	R	E	Y	R	K	Y	U	G	S	O	V	X	D	E	Y	V
Q	A	S	N	U	T	R	I	E	N	T	S	E	J	F	T	R	O
M	S	H	Y	T	G	B	F	D	E	I	T	I	U	R	P	O	L
V	M	D	F	H	U	H	V	T	N	N	C	N	S	E	G	T	U
X	A	E	D	C	V	F	T	Y	G	E	C	V	N	D	G	E	N
U	H	V	B	F	N	Z	Y	M	E	S	Y	R	F	D	V	R	T
R	P	L	A	T	E	L	E	T	H	A	G	S	X	A	H	C	A
Y	R	E	R	A	R	V	G	Y	L	R	F	I	L	A	X	R	
R	E	D	V	B	U	Y	U	O	L	I	F	D	M	B	B	E	Y
A	V	F	R	S	N	H	Y	R	F	V	D	G	M	S	D	K	J
L	W	C	S	V	F	R	T	G	H	A	U	J	U	R	O	F	K
L	S	E	S	O	P	H	A	G	U	S	N	Y	N	B	M	D	F
I	R	A	C	A	R	B	O	N	D	I	O	X	I	D	E	U	Y
P	U	H	N	T	V	R	F	T	G	B	L	N	T	H	N	O	L
A	Q	S	O	X	E	D	C	R	F	V	O	T	Y	G	B	N	H
C	M	L	J	U	U	R	I	N	E	K	C	I	L	O	P	S	F
X	C	V	D	E	R	F	D	G	N	O	I	T	S	E	G	I	D

Comprehension Quiz

Part A

34

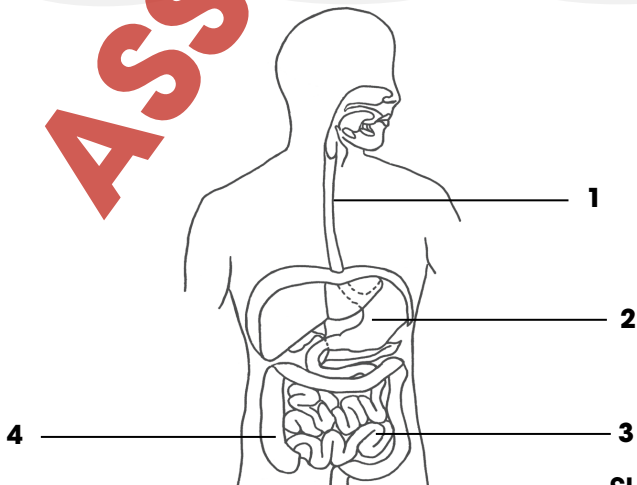
Circle **T** if the statement is **TRUE** or **F** if it is **FALSE**.

- T F 1) Blood circulates through blood vessels and goes to all parts of the body.
- T F 2) The largest artery is the aorta, located in the lungs.
- T F 3) The heart is a pump made of voluntary muscle tissue.
- T F 4) Our stomach is not very strong. This is why we can get sick to our stomach.
- T F 5) Acid in the stomach breaks down our food.
- T F 6) Materials left over in the large intestine are indigestible.
- T F 7) Sugar is a waste material found in sweat.
- T F 8) Testosterone is an enzyme made in the male body.

Part B

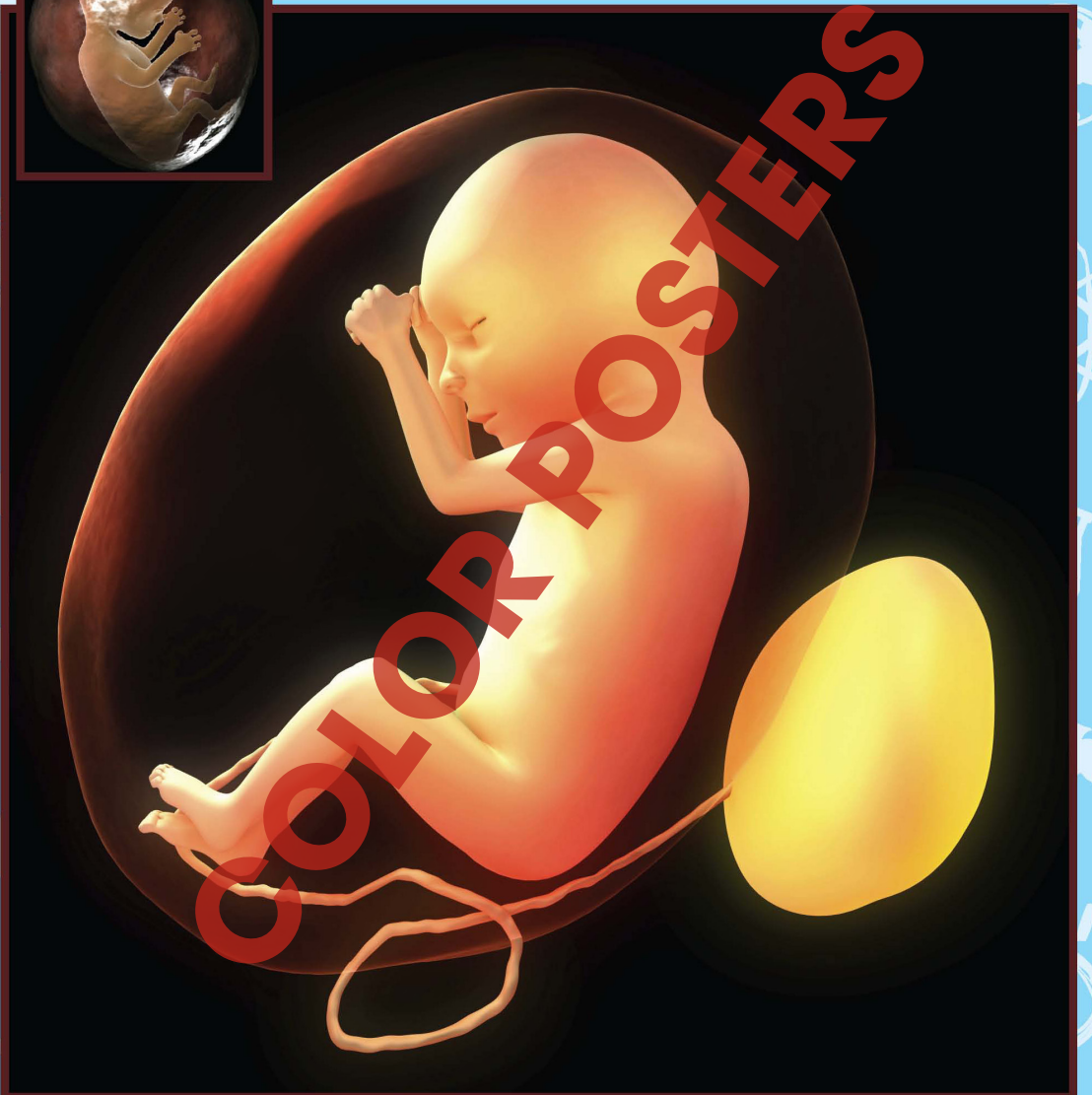
Label the parts of the digestive system. Use the words in the list.

- stomach esophagus large intestine small intestine



SUBTOTAL: /16

Human Fetus



NAME: _____

After You Read 



The Reproductive System

3. How do the egg and sperm cells become a baby?

4. How does the fetus breathe and get its food before it is born?

Extension & Application

5. We have read that **hormones** help us grow and stay healthy. We have also learned about two different kinds of hormones – estrogen and testosterone. Do some research to learn more about **what our hormones do**. Look for your information in books from the library or in an encyclopedia. List the names of the hormones that you read about. Record your information in a t-chart like this:

Hormone Name	What It Does

6. Write a **creative story** about seeing the world as a baby. How would you find out about the world? Use what you know about the senses to write this story.

3.
Cells grow and divide (2 cells become 4 cells, 4 cells become 8 cells, etc.)

4.
Through the umbilical cord

5.
Answers will vary depending on resources used

Student results:

Pulse at rest

- lowest of the 4 measurements

Pulse after exercise

- highest of the 4 measurements

Pulse aft 2 min. rest

- lower than after exercise

Pulse aft 5 min. rest

- lower than after 2 min. rest

Pulse is highest after exercise because the heart is beating fastest at this time. It beats faster because the body is working and the cells need more oxygen than when at rest. (Blood carries oxygen to cells.)

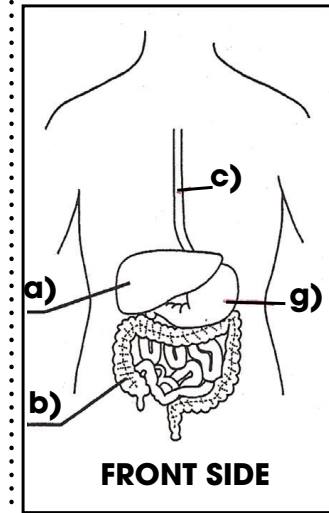
It is cleaner than the water that was poured

2.
They removed the dirt

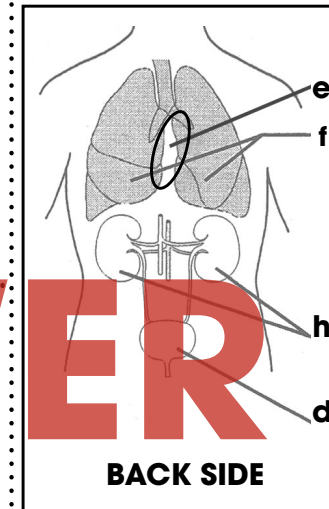
3.
Kidneys filter waste materials out of the blood

6.
Answers will vary

Answers will vary



FRONT SIDE



BACK SIDE



EASY MARKING ANSWER KEY