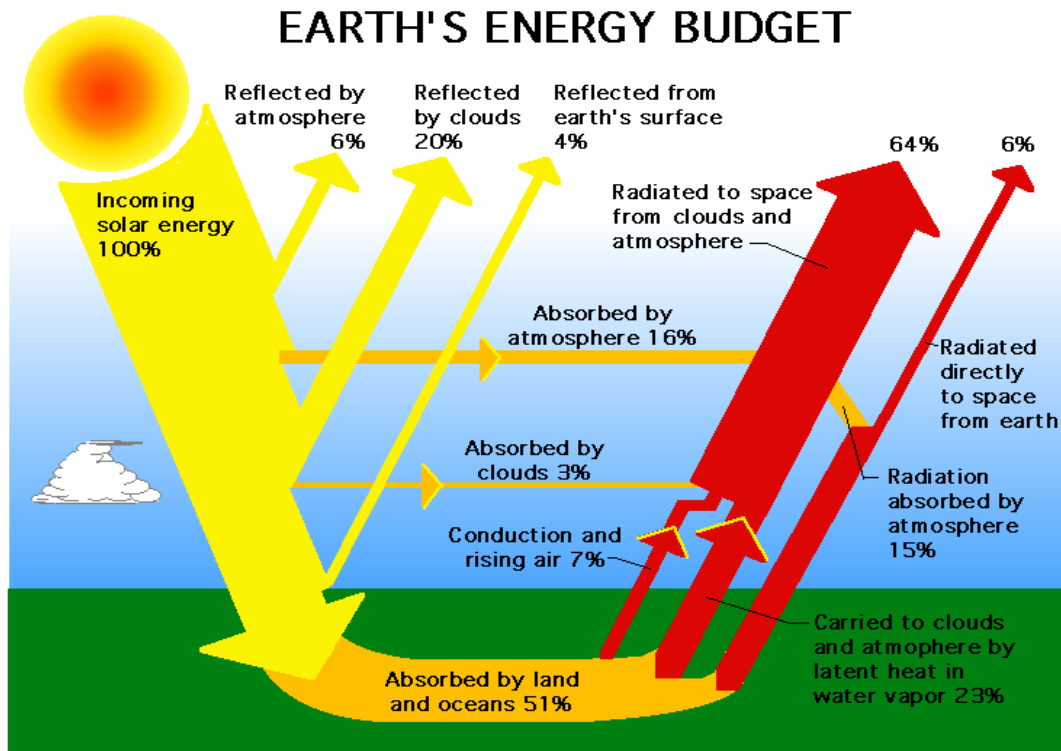


Name \_\_\_\_\_

# EARTH'S ENERGY (HEAT) BUDGET

Directions – use the diagram to answer the following questions.



1. How much incoming solar radiation does Earth receive from the sun?
2. How much solar radiation is absorbed by land and oceans?
3. How much solar radiation is absorbed by the atmosphere?
4. How much solar radiation is reflected by clouds, atmosphere and earth's surface?
5. How much energy is radiated back into space from clouds and atmosphere?
6. What do you think would happen if there were more clouds? Provide evidence from the image to support your answer.
7. What do you think would happen if the atmosphere was thinner and had fewer gases? Provide evidence from the image to support your answer.
8. How do the oceans and other forms of water affect the Earth's Energy Budget?
9. What do you think would happen to the surface temperatures if the surface absorbed more incoming solar radiation?
10. Using this image, describe Earth's Energy Budget.