Quiz #3

1. A source of yellow light is moving quickly away from you. You will see it as

A) orangeish **B) greenish**

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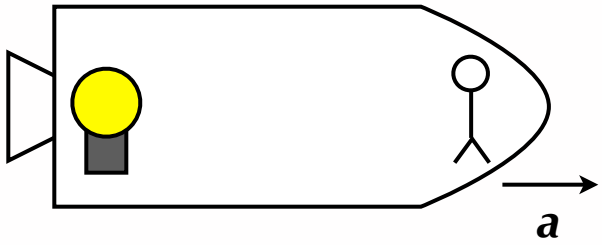
2. A rocket accelerates to the right. Light with frequency f is emitted at the back of the rocket. The light as seen from the front of the rocket will appear to have ___ frequency.



A) a larger **B) the same** **C) a smaller**

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3. Clock M sits on the moon, while clock E sits on Earth.
Which clock runs more slowly, according to general relativity?

A) E **B) M**

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4. A blackbody is an object which does not ___ light.

A) absorb **B) emit** **C) reflect**

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5. When light hits a metal plate, an electron is kicked off if the light's ___ is large enough.

A) amplitude **B) frequency** **C) wavelength**

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6. The *ultraviolet catastrophe* describes a problem classical physics had when explaining

A) blackbody radiation **B) bremsstrahlung**
C) gravity **D) the photoelectric effect**

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ACACBA

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