





22. Satellite 1 makes a circular orbit around the Earth with a radius $r_1 = R$. Satellite 2 makes a circular orbit around the Earth with a radius $r_2 = 2R$. We let v represent the speed of a satellite and a represent the magnitude of a satellite's acceleration. Which of the following choices gives the correct relation between the speeds and accelerations of the two satellites?

- (A) $v_2 = \frac{1}{2}v_1$; $a_2 = \frac{1}{4}a_1$
 (B) $v_2 = \frac{1}{2}v_1$; $a_2 = \frac{1}{2}a_1$
 (C) $v_2 = \frac{1}{2}v_1$; $a_2 = \frac{1}{2}a_1$

- (D) $v_2 = \frac{1}{2}v_1$; $a_2 = \frac{1}{2}a_1$
 (E) $v_2 = v_1$; $a_2 = \frac{1}{4}a_1$



23. A car moves with constant speed around a horseshoe-shaped path as shown with the arrows in the figure. Which one of the following choices best describes the direction of the average acceleration of the car in traveling from W to X?

- (A) \swarrow (B) \nwarrow (C) \nearrow (D) \searrow (E) There is no average acceleration.

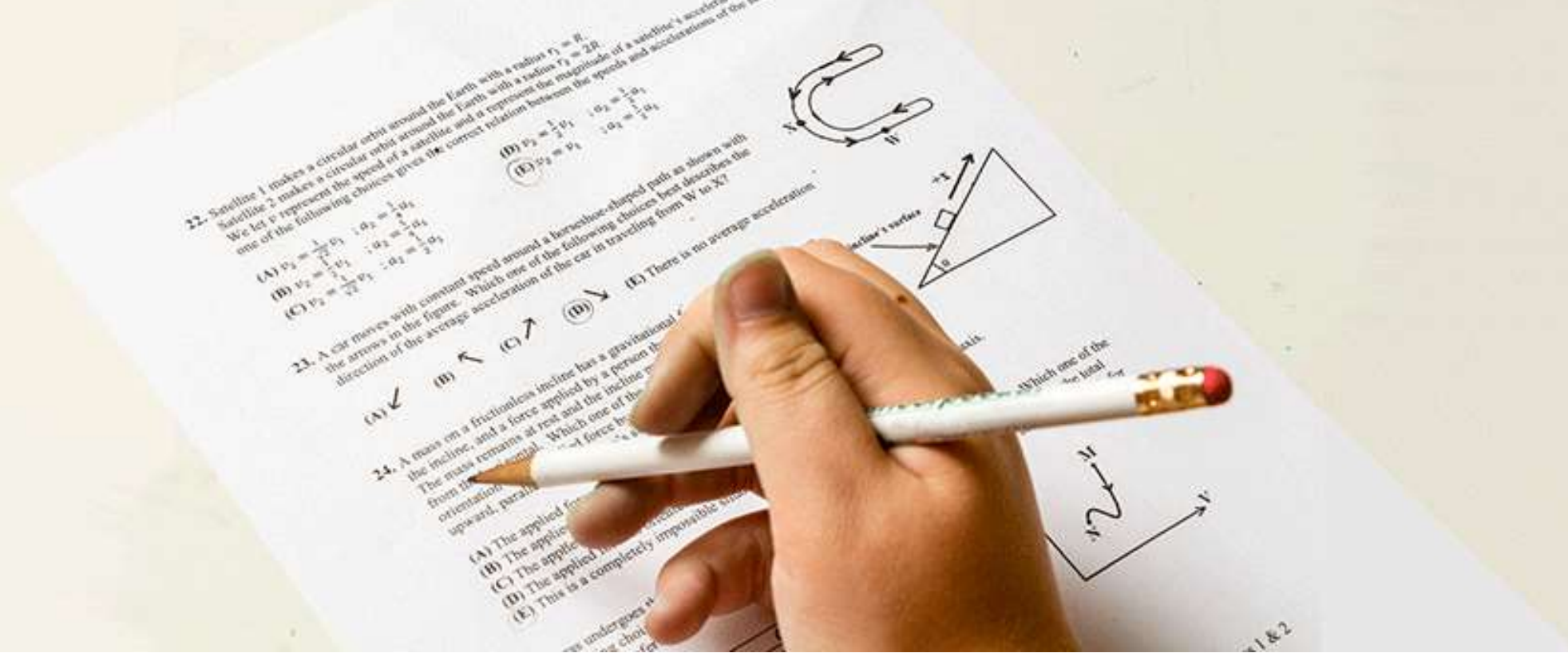


24. A mass on a frictionless incline has a gravitational force F_g acting on it. The mass remains at rest and the incline makes an angle θ with the horizontal. Which one of the following choices best describes the orientation of the force F applied to the mass upward, parallel to the incline?

- (A) The applied force F is perpendicular to the incline.
 (B) The applied force F is parallel to the incline.
 (C) The applied force F is perpendicular to the horizontal.
 (D) The applied force F is parallel to the horizontal.
 (E) This is a completely impossible situation.

Which one of the following choices best describes the total force on the mass?





~~Wat heb je gedaan?~~
Wat heb je nodig?

Persoonlijke band

**DE POLITIE IS JE
BESTE VRIEND**

JA JA

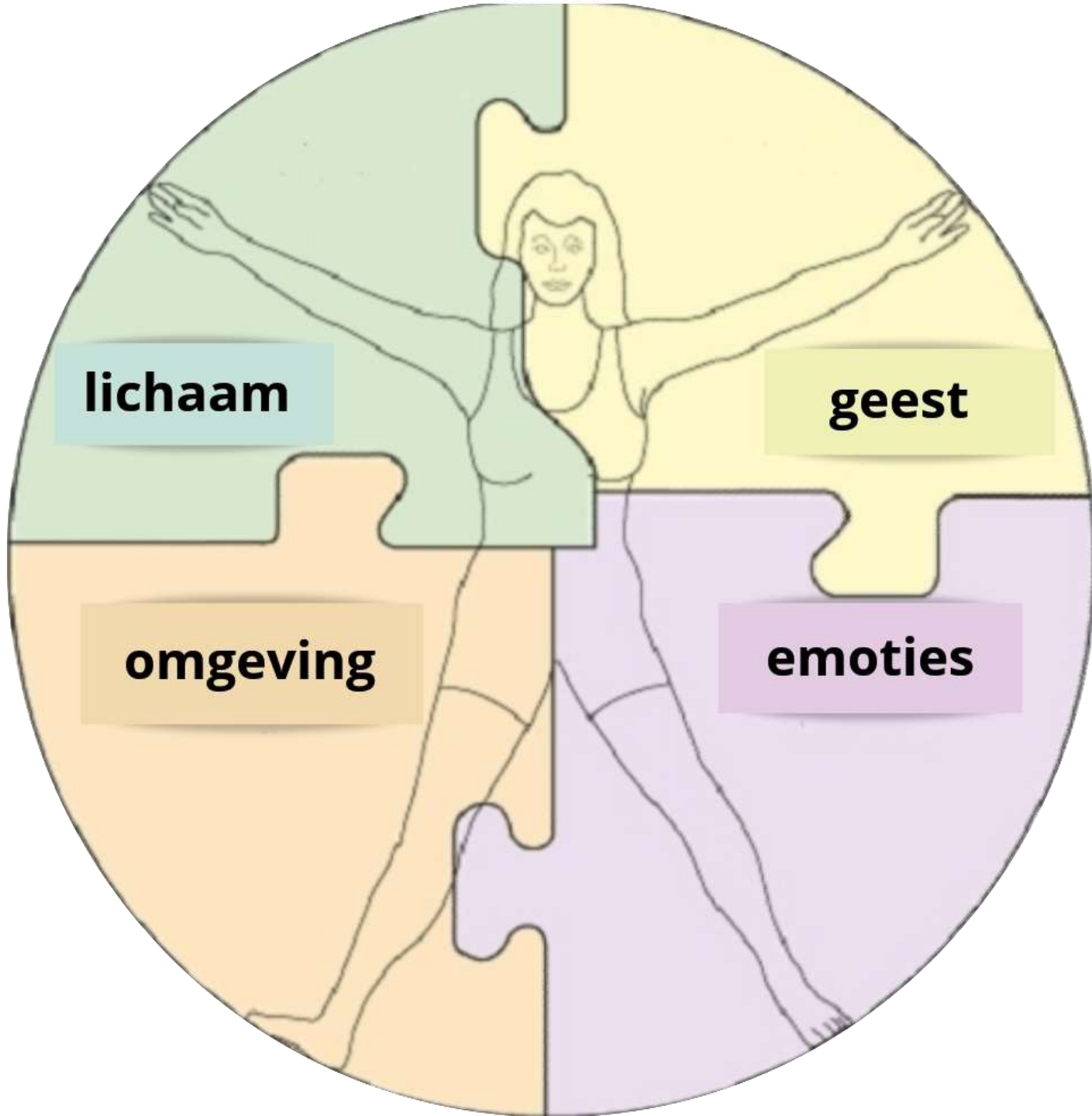
**EN MIJN LERAAR
ZEKER OOK**

het
broertje
van

Loesje

woensdag **19** januari

Brede kijk op de student





Leraren zijn bevoegd
en bekwaam. Anders waren ze
geen leraar



differentiëren hoort bij de
kern van het leraarschap.



Dus: leraren kunnen differentiëren.



Logisch.



**Als je het al weet, weet je het.
Geen data nodig**

Flexibiliseren?



Flexibiliseren?



Leraar	Studiedata
Leraren kijken vooruit	X
Leraren zijn te vertrouwen,	X
Leraren houden rekening met je	X
Leraarschap is vakmanschap – leraar kent elke student	X
De persoonlijke band met een leraar draag je je hele leven bij je.	X