

- 1) A game has 2 spinners. Spinner #1 has a probability of landing red of  $\frac{2}{3}$ . And, spinner #2 has a probability of landing red of  $\frac{1}{5}$ . What is the probability spinner #1 lands red AND spinner #2 does NOT land red?

- a)  $\frac{2}{15}$
- b)  $\frac{8}{15}$
- c)  $\frac{13}{15}$
- d)  $\frac{1}{5}$
- e)  $\frac{3}{5}$

- 2) For some positive real number 'b',  $b - 1$ ,  $b + 4$ ,  $3b + 2$ . What is the

- a) 16
- b) 20
- c) 24
- d) 28
- e) 40

- 3) Which equation best models the following data in the table:

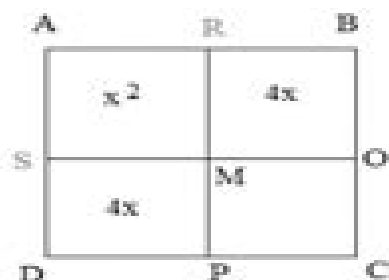
- a)  $y = 1.2(4.4)^x$
- b)  $y = 4.4(1.2)^x$
- c)  $y = -1.2(4.4)^x$
- d)  $y = -4.4(1.2)^x$
- e)  $y = 1.2x^{4.4}$

x	-6.7	-1.3	3.2	8.8
y	1.30	3.47	7.89	21.89

by Lance Friedman

- 4) The figure shows a square region divided into 4 rectangle regions. If the area of ABCD is 100 what is the area of MOCP?

- a) 16
- b) 24
- c) 28
- d) 36
- e) 64



- 5)  $\sin(\tan^{-1} 3) =$

- a)  $\frac{1}{3}$
- b)  $\frac{3\sqrt{10}}{10}$
- c)  $\frac{1}{2}$
- d)  $\frac{\sqrt{2}}{3}$
- e)  $\frac{3}{10}$

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(and, Solutions)

# Practice Sat 2 Physics Test

**Ying Liu**



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web much like reflection refraction also describes a change in direction of light but it differs from reflection refraction is a noticeable bending of light when it travels from one substance to another

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web science class 10 physics india unit 1 light reflection refraction 1 700 possible mastery points mastered proficient familiar attempted not started quiz unit test about this unit when light travels from one medium to another like air to glass or glass to water it does three things

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web the change in direction of a beam of light as it travels from one material to another is called refraction the normal is a construction line drawn at right angles to the surface of the glass

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web we see the light reflected off a mirror coming from a direction determined by the law of reflection the changing of a light ray s direction loosely called bending when it passes through variations in matter is called refraction

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60 and the refraction angle is 35 from snell s law  $\sin \theta_1 \sin \theta_2 = \frac{v_1}{v_2}$  then  $\sin 35^\circ \sin 60^\circ = \frac{v_1}{v_2}$  and the speed of light in the block is 20 10 8 ms b the frequency of the light does not change upon refraction

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web there are two laws that govern how light changes direction when it interacts with matter the law of reflection for



situations in which light bounces off matter and the law of refraction for situations in which light passes through matter in this section we consider the geometric optics of reflection

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web refraction is the bending of light it also happens with sound water and other waves as it passes from one transparent substance into another this bending by refraction makes it possible for us to have lenses magnifying glasses prisms and rainbows even our eyes depend upon this bending of light