

M9 Study guide

Ryan

1: (A) A point against which position is measured

(B) A physical measurement that contains directional information

(C) A physical measurement that does not contain directional information

(D) The time rate of change of an object's velocity

(E) The motion of an object when it is falling solely under the influence of gravity

2. No

3. Yes

$$\frac{45 \text{ min}}{45 \text{ min}} = X$$

4. A. the girls

B. the child

C. the other girl

$$\frac{60 \text{ sec} = 1 \text{ min}}{2700} = 45 \text{ min}$$

$$\frac{1,000 \text{ m}}{6,000 \text{ m} \cdot 6} = 1 \text{ km}$$

$$X = 2700$$

5. 20 mph

6. 2.2 m/s

7. A. scalar
F scalar

B. vector

C. scalar

D. scalar

E. vector

SGM92...

$$\text{Distance} = \frac{1}{2} (32.7) \times (7.5)^2$$

16. 748

$$\frac{32}{\times 14}$$

17. the opposite

$$\frac{60 \text{ min} = 1 \text{ hr.}}{12 \text{ min} \quad \times}$$

$$\frac{60x = 12}{60 \quad 60} \quad \frac{.2}{60 \overline{)120}}$$

x =