

Name: _____

TEST Q1T1

Math Review

1. Solve for x in the equation $E = \frac{1}{2}kx^2$

1. _____

2. Solve for m in the equation $F = m a$

2. _____

3. Express 0.000 050 326 in scientific notation.

3. _____

4. Express 4.5201×10^{-2} in standard notation.

4. _____

5. Solve the following: $4 \times 10^3 / 8 \times 10^{-2}$

5. _____

6. State the number of significant digits in 0.0305

6. _____

7. State the number of significant digits in 230.20

7. _____

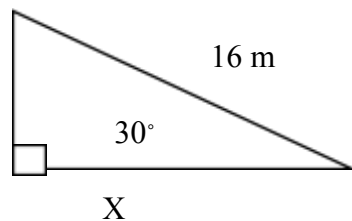
8. Convert 4.50×10^6 centimeters (cm) to meters (m)

8. _____

9. Convert 52 grams (g) to kilograms (kg)

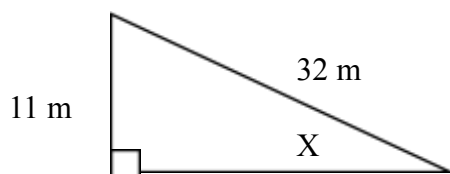
9. _____

10. Find the value of side X (triangle not to scale) **CALC in DEGREES**



10. _____

11. Find the value of angle X (triangle not to scale)

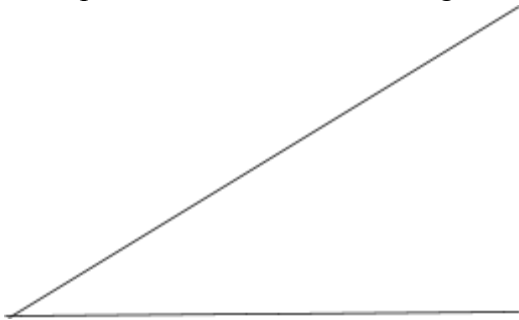


11. _____

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12. Use a protractor to measure the angle below

12. _____ °



13. Determine the y-intercept for the formula $y = 2x + 6$

13. _____

14. Determine the slope for the formula $y = 2x + 6$

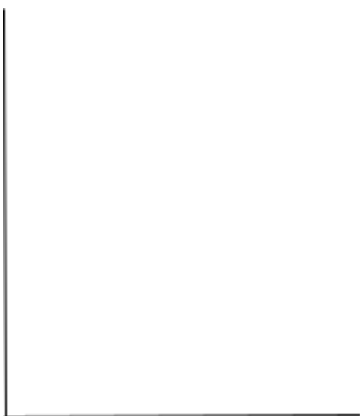
14. _____

15. Sketch the line on the graph below for the relationship between F and a in the formula $F = ma$ with m being constant

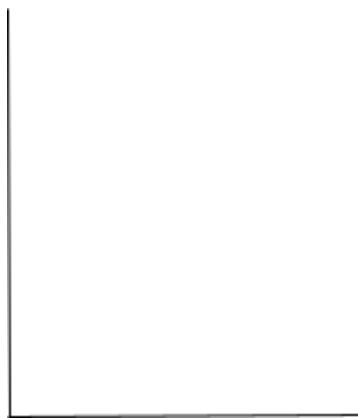
16. Sketch the line on the graph below for the relationship between KE and v in the formula $KE = \frac{1}{2}mv^2$ with m being constant

F (15)

KE (16)



a



v

17. The approximate height of a desk in meters is

A. 10^{-1} B. 10^0 C. 10^1 D. 10^2

17. _____

18. The approximate mass of a school chromebook in kilograms is

A. 10^{-1} B. 10^0 C. 10^1 D. 10^2

18. _____

19. For $K = mv^2$, determine the factor for K if m doubles, v is the same

19. _____

20. For $K = mv^2$, determine the factor for K if v doubles, m is the same

20. _____