

ATI TEAS Facebook Live

Thursday, November 15, 2018

Math Question #1

A man is putting a fence around his rectangular yard. His lot measures 13.5 feet (ft) long and 47.75 ft wide. The fencing comes in rolls that are 50 ft long. Which of the following is the number of rolls of fencing the man will need to buy?

- A. 1
- B. 2
- C. 3
- D. 4

Math Question #1 ANSWER

A man is putting a fence around his rectangular yard. His lot measures 13.5 feet (ft) long and 47.75 ft wide. The fencing comes in rolls that are 50 ft long. Which of the following is the number of rolls of fencing the man will need to buy?

A. 1

B. 2

C. 3

$P = 47.75 \times 2 + 13.5 \times 2 = 122.5$ ft. Then take $122.5/50 = 2.45$ Rolls. So he will need to buy three 50 ft. rolls to cover 122.5 ft.

D. 4

Math Question #2

A symphony has 125 musicians. Seventy-five of them are women. Which of the following is the ratio of the men to the total musicians in the symphony?

A. $\frac{2}{5}$

B. $\frac{3}{5}$

C. $\frac{2}{3}$

D. $\frac{5}{2}$

Math Question #2 ANSWER

A symphony has 125 musicians. Seventy-five of them are women. Which of the following is the ratio of the men to the total musicians in the symphony?

A. $\frac{2}{5}$. $125 \text{ Musicians} - 75 \text{ Women} = 50 \text{ Men.}$ $\frac{50 \text{ Men}}{75 \text{ Women}} = \frac{2}{5}$

B. $\frac{3}{5}$

C. $\frac{2}{3}$

D. $\frac{5}{2}$

Math Question #3

Simplify the expression below. Which of the following are correct?

$$6 \times (5 + 7) \div 4 - 7 \times 2 + 3 \times 3$$

A. -72

B. -5

C. 13

D. 75

Math Question #3 ANSWER

Simplify the expression below. Which of the following are correct?

$$6 \times (5 + 7) \div 4 - 7 \times 2 + 3 \times 3$$

A. -72

B. -5

C. 13. $6 \times 12 \div 4 - 14 + 9$. $72 \div 4 - 5$. $18 - 5 = 13$.

D. 75

Math Question #4

Which of the following completes the equation below?

$$215.4\% \text{ of } 55 = \underline{\hspace{2cm}}$$

- A. 11.847
- B. 118.47
- C. 1184.7
- D. 11847

Math Question #4 ANSWER

Which of the following completes the equation below?

$$215.4\% \text{ of } 55 = \underline{\hspace{2cm}}$$

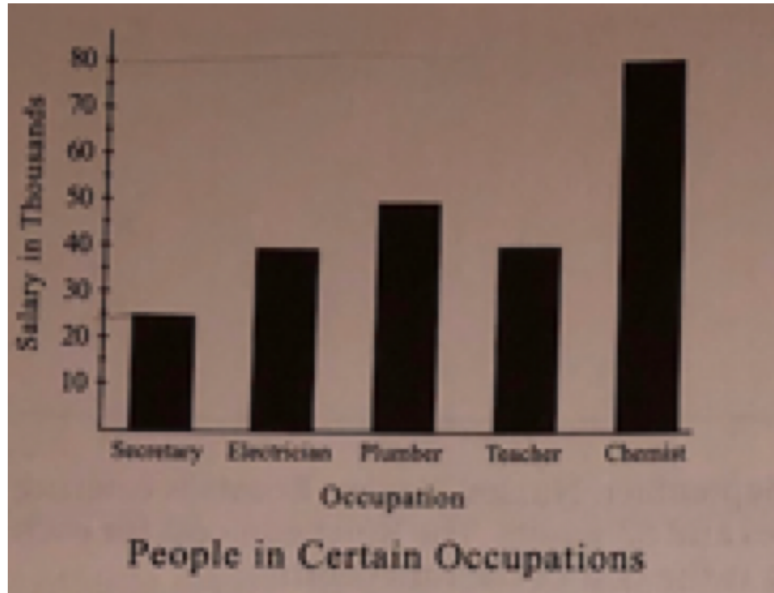
A. 11.847

B. $118.47 \cdot \frac{215.4}{100} \times 55 = 118.47$

C. 1184.7

D. 11847

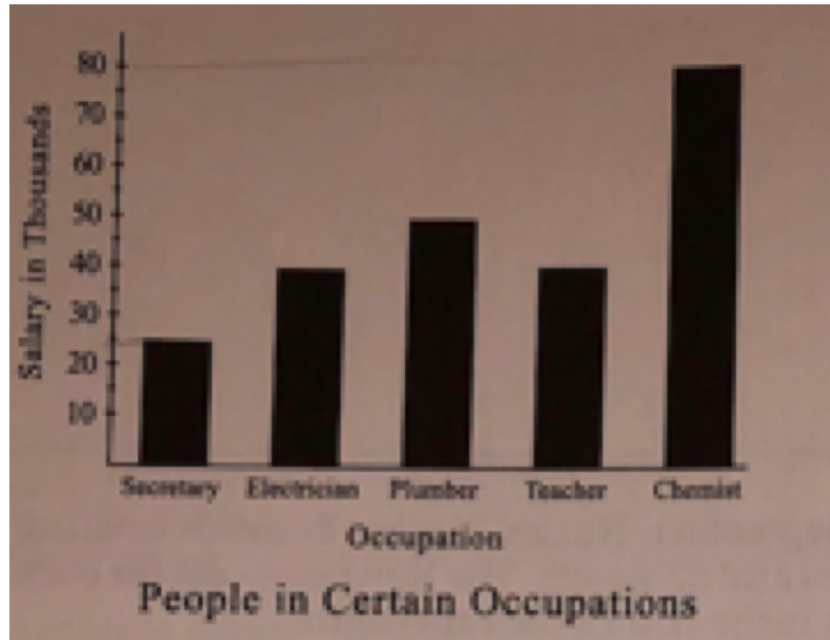
Math Question #5



The graph above shows the average salaries of people in certain occupations in a given town. Which of the following is the difference between the lowest and highest salaries shown in the graph?

- A. \$25,000
- B. \$40,000
- C. \$55,000
- D. 105,000

Math Question #5 ANSWER



The graph above shows the average salaries of people in certain occupations in a given town. Which of the following is the difference between the lowest and highest salaries shown in the graph?

- A. \$25,000
- B. \$40,000
- C. \$55,000. $\$80,000 - \$25,000 = \$55,000$
- D. 105,000

Math Question #6

Solve the equation below. Which of the following is correct?

$$\frac{x}{2} + 5 = 9$$

- A. $X = 4$
- B. $X = 8$
- C. $X = 13$
- D. $X = 14$

Math Question #6 ANSWER

Solve the equation below. Which of the following is correct?

$$\frac{x}{2} + 5 = 9$$

A. $X = 4$

B. $X = 8.$ $\frac{x}{2} = 4.$ $X = 8.$

C. $X = 13$

D. $X = 14$

Math Question #7

Which of the following is the solution set for the equation below?

$$|x + 2| = 5$$

- A.* $\{-7, 3\}$
- B.* $\{-3, 7\}$
- C.* $\{3, 7\}$
- D.* $\{-7, -3\}$

Math Question #7 ANSWER

Which of the following is the solution set for the equation below?

$$|x + 2| = 5$$

A. $\{-7, 3\}$. $X + 2 = 5$. $X = 3$; $X + 2 = -5$. $X = -7$

B. $\{-3, 7\}$

C. $\{3, 7\}$

D. $\{-7, -3\}$

Math Question #8

The enrollment at a college went up from 625 to 710 students over a period of 1 year. Which of the following is the percent of increase to the nearest tenth of a percent?

- A. 8.8%
- B. 11.4%
- C. 12.0%
- D. 13.6%

Math Question #8 ANSWER

The enrollment at a college went up from 625 to 710 students over a period of 1 year. Which of the following is the percent of increase to the nearest tenth of a percent?

A. 8.8%

B. 11.4%

C. 12.0%

D. 13.6%. $\frac{625}{710} = \frac{100}{x}$. $625x = 710 \times 100$. $x = 113.6\%$. $113.6\% - 100\% = 13.6\%$

Math Question #9

Which of the following is the number of centimeters in 4 meters?

- A. 0.04
- B. 0.4
- C. 40
- D. 400

Math Question #9 ANSWER

Which of the following is the number of centimeters in 4 meters?

A. 0.04

B. 0.4

C. 40

D. 400. 4m = 400 cm. (Remember k h D b d c m).

Math Question #10

Simplify the expression below.. Which of the following is correct?

$$(x^2 + 3x - 2) - (x^2 - 2x - 5)$$

A. $5x + 7$

B. $x^2 + 5x$

C. $x - 7$

D. $5x + 3$

Math Question #10 ANSWER

Simplify the expression below.. Which of the following is correct?

$$(x^2 + 3x - 2) - (x^2 - 2x - 5)$$

A. $5x + 7$

B. $x^2 + 5x$

C. $x - 7$

D. $5x + 3$

Periodic Table of Elements

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1 H Hydrogen 1.0																	2 He Helium 4.0															
3 Li Lithium 6.9	4 Be Beryllium 9.0																	10 Ne Neon 20.2														
11 Na Sodium 23.0	12 Mg Magnesium 24.3																	18 Ar Argon 40.0														
19 K Potassium 39.1	20 Ca Calcium 40.1	21 Sc Scandium 45.0	22 Ti Titanium 47.9	23 V Vanadium 50.9	24 Cr Chromium 52.0	25 Mn Manganese 54.9	26 Fe Iron 55.8	27 Co Cobalt 58.9	28 Ni Nickel 58.7	29 Cu Copper 63.5	30 Zn Zinc 65.4	31 Ga Gallium 69.7	32 Ge Germanium 72.6	33 As Arsenic 74.9	34 Se Selenium 79.0	35 Br Bromine 79.9	36 Kr Krypton 83.8															
37 Rb Rubidium 85.5	38 Sr Strontium 87.6	39 Y Yttrium 88.9	40 Zr Zirconium 91.2	41 Nb Niobium 92.9	42 Mo Molybdenum 95.9	43 Tc Technetium 98.0	44 Ru Ruthenium 101.0	45 Rh Rhodium 102.9	46 Pd Palladium 106.4	47 Ag Silver 107.9	48 Cd Cadmium 112.4	49 In Indium 114.8	50 Sn Tin 118.7	51 Sb Antimony 121.8	52 Te Tellurium 127.6	53 I Iodine 126.9	54 Xe Xenon 131.3															
55 Cs Cesium 132.9	56 Ba Barium 137.4		72 Hf Hafnium 178.5	73 Ta Tantalum 180.9	74 W Tungsten 183.8	75 Re Rhenium 186.2	76 Os Osmium 190.2	77 Ir Iridium 192.2	78 Pt Platinum 195.1	79 Au Gold 196.9	80 Hg Mercury 200.6	81 Tl Thallium 204.4	82 Pb Lead 207.2	83 Bi Bismuth 208.9	84 Po Polonium 209.0	85 At Astatine 209.0	86 Rn Radon 222.0															
87 Fr Francium 223.0	88 Ra Radium 226.0		104 Rf Rutherfordium 261.0	105 Db Dubnium 262.0	106 Sg Seaborgium 266.0	107 Bh Bohrium 264.0	108 Hs Hassium 277.0	109 Mt Meitnerium 268.0	110 Ds Darmstadtium 271.0	111 Rg Roentgenium 272.0	112 Uub Ununbium 285.0	113 Uut Ununtrium 289.0	114 Uuq Ununquadium 289.0	115 Uup Ununpentium 288.0	116 Uuh Ununhexium 292.0	117 Uus Ununseptium	118 Uuo Ununoctium 294.0															
																		57 La Lanthanum 138.9	58 Ce Cerium 140.1	59 Pr Praseodymium 140.9	60 Nd Neodymium 144.2	61 Pm Promethium 145.0	62 Sm Samarium 150.4	63 Eu Europium 151.9	64 Gd Gadolinium 157.3	65 Tb Terbium 158.9	66 Dy Dysprosium 162.5	67 Ho Holmium 164.9	68 Er Erbium 167.2	69 Tm Thulium 168.9	70 Yb Ytterbium 173.0	71 Lu Lutetium 174.9
																		89 Ac Actinium 227.0	90 Th Thorium 232.0	91 Pa Protactinium 231.0	92 U Uranium 238.0	93 Np Neptunium 237.0	94 Pu Plutonium 244.0	95 Am Americium 243.0	96 Cm Curium 247.0	97 Bk Berkelium 247.0	98 Cf Californium 251.0	99 Es Einsteinium 252.0	100 Fm Fermium 257.0	101 Md Mendelevium 258.0	102 No Nobelium 259.0	103 Lr Lawrencium 262.0

Atomic #

Symbol

Name

Atomic mass

C

Solid

Hg

Liquid

H

Gas

Rf

Unknown

Alkali Metals

Alkaline Earth Metals

Transitional Metals

Other Metals

Metalloids

Nonmetals

Noble Gasses

Lanthanoids

Actinoids

Science Question #1

Consider an atom that possesses 8 protons, 9 neutrons, and 7 electrons. This atom will have an overall charge of _____ and will have an overall mass of approximately _____ AMU.

Which of the following correctly completes the sentence above?

- A. -1; 17
- B. -1; 15
- C. +1; 15
- D. +1; 17

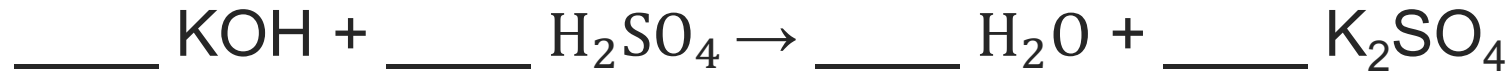
Science Question #1 ANSWER

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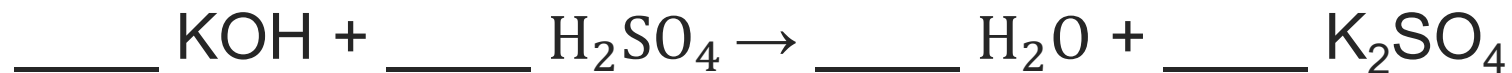
Science Question #2



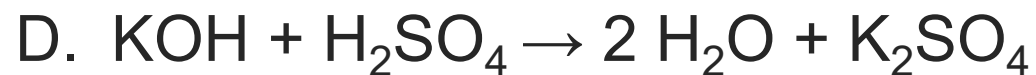
Which of the following equations balances the acid/base reaction above?

- A. $\text{KOH} + \text{H}_2\text{SO}_4 \rightarrow \text{H}_2\text{O} + \text{K}_2\text{SO}_4$
- B. $2 \text{KOH} + \text{H}_2\text{SO}_4 \rightarrow 2 \text{H}_2\text{O} + \text{K}_2\text{SO}_4$
- C. $2 \text{KOH} + \text{H}_2\text{SO}_4 \rightarrow \text{H}_2\text{O} + \text{K}_2\text{SO}_4$
- D. $\text{KOH} + \text{H}_2\text{SO}_4 \rightarrow 2 \text{H}_2\text{O} + \text{K}_2\text{SO}_4$

Science Question #2 ANSWER



Which of the following equations balances the acid/base reaction above?



Science Question #3

The electron configuration for a certain neutral atom is $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$. This atom also has a mass number of 42. Which of the following indicates the number of protons and neutrons in this atom.

- A. 20 protons, 22 neutrons
- B. 20 protons, 42 neutrons
- C. 22 protons, 22 neutrons
- D. 22 protons, 42 neutrons

Science Question #3 ANSWER

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- B. 20 protons, 42 neutrons
- C. 22 protons, 22 neutrons
- D. 22 protons, 42 neutrons

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