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19757032.454545 101955518714 1679931.9701493 83343144888 18014661275 340442720 11441379.458824 10591562.097222

1. Make the following temperature conversion:
 A) $210^{\circ}\text{C} \rightarrow \text{K}$
 $\text{C} = \frac{5}{9}(\text{F} - 32) \Rightarrow 210 = \frac{5}{9}(\text{F} - 32) \Rightarrow \text{F} = 410^{\circ}\text{F}$
 B) $-20.9^{\circ}\text{F} \rightarrow \text{K}$
 $\text{C} = \frac{5}{9}(\text{F} - 32) \Rightarrow -20.9 = \frac{5}{9}(\text{F} - 32) \Rightarrow \text{F} = -22.8^{\circ}\text{F}$

2. Calculate the density of a mineral sample if it causes the level of water in a graduated cylinder to increase from 22.5 mL to 24.7 mL, and has a mass of 0.81 g.
 $D = \frac{m}{V}$
 $m = 0.81\text{g}$
 $V = \frac{24.7\text{mL} - 22.5\text{mL}}{1\text{mL}} = 2.2\text{mL}$
 $D = \frac{0.81\text{g}}{2.2\text{mL}} = 0.368\text{g/mL}$

3. Ethylene glycol, commonly known as antifreeze, has a density of 1.1 g/mL. What is the mass in kg of 100 gallons of the compound?
 $m = ?$
 $D = \frac{m}{V} \Rightarrow m = DV = (1.1)(378.5\text{L})$
 $m = 416.35\text{kg}$
 $V = \frac{100\text{gal}}{1\text{gal}} \cdot \frac{3.785\text{L}}{1\text{L}} \cdot \frac{1000\text{mL}}{1\text{L}} = 3785\text{L}$
 $m = 4.20\text{kg}$

4. What length of aluminum sheet metal (in m) that is 1.50 m wide and 1.25 mm thick can be prepared from 500. kg of aluminum metal?
 $Q = ?$
 $m = 500.\text{kg}$
 $D = \frac{m}{V} \Rightarrow V = \frac{m}{D}$
 $D = 2.618\text{g/cm}^3$
 $V = \frac{500}{2.618} = 190.6\text{cm}^3$
 $W = 1.50\text{m} = 150\text{cm}$
 $L = 1.25\text{mm} = 0.125\text{cm}$
 $V = \frac{W \cdot L \cdot H}{3} \Rightarrow 190.6 = \frac{150 \cdot 0.125 \cdot H}{3}$
 $V = \frac{190.6}{50} = 3.812\text{cm}^3$
 $H = \frac{3.812}{150 \cdot 0.125} = 2.54\text{mm}$
 $Q = 2.54 \cdot 150 = 381\text{m}$
 $L = 381\text{m}$

5. Carry out the following conversions by DIMENSIONAL ANALYSIS:
 A) $67.3\text{ft} \rightarrow \text{m}$
 $67.3 \cdot \frac{1\text{m}}{3.28\text{ft}} \cdot \frac{1\text{m}}{1\text{m}} \cdot \frac{1\text{m}}{1\text{m}} = 20.5\text{m}$
 B) $452\text{km} \rightarrow \text{mi}$
 $452 \cdot \frac{1\text{mi}}{1.61\text{km}} \cdot \frac{1\text{mi}}{1\text{mi}} = 452 \cdot 10^3\text{mi}^2 = 4.52 \cdot 10^3\text{mi}^2$
 C) Convert the speed of light, $3.00 \times 10^8\text{m/s}$, to miles per hour.
 $3.00 \cdot \frac{1\text{mi}}{1\text{hr}} \cdot \frac{1\text{hr}}{1000\text{m}} \cdot \frac{1\text{mi}}{1.609\text{km}} = 6.71 \cdot 10^8\text{mi/hr}$

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME _____

- 1) A student measures the mass of an 8 cm^3 block of brown sugar to be 12.9 g. What is the density of the brown sugar?

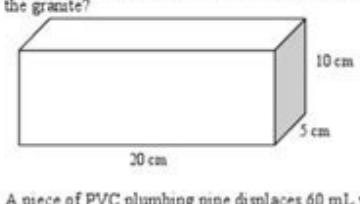
- 2) A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?

- 3) Calculate the mass of a liquid with a density of 1.5 g/mL and a volume of 15 mL.

- 4) Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g.

- 5) A machine shop worker records the mass of an aluminum cube as 176 g. If one side of the cube measures 4 cm, what is the density of the aluminum?

- 6) A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g. What is the density of the cork?



- 7) A carver begins work on the following block of granite that weighs 1700 g. What is the density of the granite?

- 8) A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g, what is the density of PVC?

- 9) A solid magnesium wire has a mass of 1300 g and a volume of 743 cm^3 . What is the density of the magnesium?

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CCSS Mathematics - Answer Keys for Grade 1

Standard : CCSS.Math.Content.1.NBT.B.2

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Answer Key

Directions: Understand that the first digit of a two-digit number represents tens of tens and ones.

Write the number of tens and ones:

1. Write the value of: 57	6. Write the value of: 46
_____ tens, _____ ones	_____ tens, _____ ones
Answer: 5 tens, 7 ones	Answer: 4 tens, 6 ones

2. Write the value of: 94	7. Write the value of: 78
_____ tens, _____ ones	_____ tens, _____ ones
Answer: 9 tens, 4 ones	Answer: 7 tens, 8 ones

3. Write the value of: 83	8. Write the value of: 44
_____ tens, _____ ones	_____ tens, _____ ones
Answer: 8 tens, 3 ones	Answer: 4 tens, 4 ones

4. Write the value of: 91	9. Write the value of: 62
_____ tens, _____ ones	_____ tens, _____ ones
Answer: 9 tens, 1 ones	Answer: 6 tens, 2 ones

5. Write the value of: 16	10. Write the value of: 63
_____ tens, _____ ones	_____ tens, _____ ones
Answer: 1 tens, 6 ones	Answer: 6 tens, 3 ones

Answer Key for Practice #1 - Grade 1 CCSS Math Standard: 1.NBT.B.2
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Conditional Probability Worksheet 4

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1. Consider the following probability tree diagram. Find all possible outcomes and their probabilities.	2. Given the tree diagram above, find the probability of outcome 13.	3. Given the tree diagram above, find the probability of outcome 15.	4. Given the tree diagram above, find the probability of outcome 17.	5. Given the tree diagram above, find the probability of outcome 19.	6. Given the tree diagram above, find the probability of outcome 20.	7. Given the tree diagram above, find the probability of outcome 1.	8. Given the tree diagram above, find the probability of outcome 2.	9. Given the tree diagram above, find the probability of outcome 3.	10. Given the tree diagram above, find the probability of outcome 4.	11. Given the tree diagram above, find the probability of outcome 5.	12. Given the tree diagram above, find the probability of outcome 6.	13. Given the tree diagram above, find the probability of outcome 7.	14. Given the tree diagram above, find the probability of outcome 8.	15. Given the tree diagram above, find the probability of outcome 9.	16. Given the tree diagram above, find the probability of outcome 10.	17. Given the tree diagram above, find the probability of outcome 11.	18. Given the tree diagram above, find the probability of outcome 12.	19. Given the tree diagram above, find the probability of outcome 13.	20. Given the tree diagram above, find the probability of outcome 14.	

1. Consider the following probability tree diagram. Find all possible outcomes and their probabilities.

2. Given the tree diagram above, find the probability of outcome 13.

3. Given the tree diagram above, find the probability of outcome 15.

4. Given the tree diagram above, find the probability of outcome 17.

5. Given the tree diagram above, find the probability of outcome 19.

6. Given the tree diagram above, find the probability of outcome 20.

7. Given the tree diagram above, find the probability of outcome 1.

8. Given the tree diagram above, find the probability of outcome 2.

9. Given the tree diagram above, find the probability of outcome 3.

10. Given the tree diagram above, find the probability of outcome 4.

11. Given the tree diagram above, find the probability of outcome 5.

12. Given the tree diagram above, find the probability of outcome 6.

13. Given the tree diagram above, find the probability of outcome 7.

14. Given the tree diagram above, find the probability of outcome 8.

15. Given the tree diagram above, find the probability of outcome 9.

16. Given the tree diagram above, find the probability of outcome 10.

17. Given the tree diagram above, find the probability of outcome 11.

18. Given the tree diagram above, find the probability of outcome 12.

19. Given the tree diagram above, find the probability of outcome 13.

20. Given the tree diagram above, find the probability of outcome 14.

Name _____ Date _____ Period _____

Date:

Period

Density Practice Problems KEY

This image will help you in figuring out how to solve density problems:

$$\frac{M}{dV}$$

Simply cover up whichever value you need to calculate and the other two are shown in their proper placement, be it to multiply or to divide.

For example, cover up the M. This leave you with dV (ignore the fact that it is in the denominator). Density times volume will give you mass. You can also check it out by way of the units: (g / cm³) x cm³ cancels out the volume unit leaving grams, the desired unit for mass.

Solve the following problems showing all your work including equations and units.

11) A block of aluminum occupies a volume of 15.0 ml, and weighs 40.5 g. What is its density?

$$D = m / v$$

$$D = 40.5 \text{ g} / 15 \text{ mL} = 2.7 \text{ g/mL}$$

2) Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.

$$D = m / \gamma$$

$$D = 306.0 \text{ g} / 33.5 \text{ mL} = 9.0 \text{ g/mL}$$

3) What is the mass of the ethyl alcohol that exactly fills a 200.0 mL container? The density of ethyl

alcohol is 0.7

$$\mathbf{m} = \mathbf{D} \times \mathbf{V}$$

4) A rectangular block of copper metal weighs 1896 g. The dimensions of the block are 8.4 cm by 5.5 cm by 2.5 cm. Calculate its density.

5.5 cm by 4.6 cm. F

$$V = L \times W \times H$$

$$V = (8.4 \text{ cm}) (5.5 \text{ cm}) (4.6 \text{ cm}) = 212.52 \text{ cm}^3$$

• *...* *...*

$$D = m / V$$

$$D = 1896 \text{ g} / 212.52 \text{ cm}^3 = 8.9 \text{ g/cm}^3$$

2.2 density answer key.

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