

Algebra I Practice N.Q.A.1: Conversions

www.jmap.org

NAME: _____

1. Complete: $0.552 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$
 [A] 552 [B] 0.00552
 [C] 0.000552 [D] 55.2

2. Complete: $343 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$
 [A] 3.43 [B] 34,300
 [C] 343,000 [D] 0.343

3. 3 h is equivalent to
 [A] $\frac{10}{24}$ day. [B] $\frac{3}{24}$ day.
 [C] $\frac{1}{24}$ day. [D] $\frac{5}{24}$ day.

4. The North building of the World Trade Center is 1,368 ft tall. Estimate how many yards tall it is.
 [A] 40 [B] 4,000 [C] 400 [D] $\frac{1}{4}$

5. If a clock ticks every second, how many times does it tick in a year?
 [A] 3.0476×10^6 [B] 2.98×10^8
 [C] 3.1536×10^7 [D] 3.169×10^7

6. Uyen is mixing and bagging nuts, sesame seeds, and raisins for 24 children at the summer camp to take on a hike. She used $2\frac{3}{8}$ lb of cashews, $1\frac{1}{2}$ lb of walnuts, $2\frac{1}{4}$ lb of roasted peanuts, $1\frac{1}{8}$ lb of sesame seeds, and $1\frac{3}{4}$ lb of raisins. How many ounces of mix can Uyen put in each bag so that each child has the same amount?
 [A] 6 [B] 5 [C] 8 [D] $\frac{3}{8}$

7. Complete: $15,840 \text{ ft} = \underline{\hspace{2cm}} \text{ mi}$

8. Complete: $20 \text{ ft} = \underline{\hspace{2cm}} \text{ yd}$

Algebra I Practice N.Q.A.1: Conversions

www.jmap.org

NAME: _____

9. Convert 12 cups to quarts.
10. Convert 14 pints to gallons.
11. Tomatoes cost \$1.56 a pound. If Suzanne purchased 36 ounces of tomatoes, how much did she pay? Round to the nearest cent.
12. A box of spaghetti weighs 1 pound. Lindsay cooked 9 oz of the spaghetti. Will she be able to make another meal of equal size with the remainder of the box?
13. Use the expression $F = \frac{9}{5}C + 32$ to change from the Celsius scale to the Fahrenheit scale. What is -4°C in Fahrenheit?
14. The formula for converting degrees Fahrenheit (F) to degrees Celsius (C) is $C = \frac{5}{9}(F - 32)^{\circ}$. Find the equivalent Celsius temperature when the temperature is 50°F .
15. The formula for converting degrees Fahrenheit (F) to degrees Celsius (C) is $C = \frac{5}{9}(F - 32)^{\circ}$. Find the equivalent Celsius temperature when the temperature is 23°F .
16. In the formula $w = -39 + \frac{3}{2}t$, w is the approximate windchill temperature when the wind speed is 20 mi/h, and t is the actual air temperature. Find the approximate windchill temperature when the actual air temperature is -5°F and the wind speed is 20 mi/h.

Algebra I Practice N.Q.A.1: Conversions

www.jmap.org

[1] C

[2] D

[3] B

[4] C

[5] C

[6] A

[7] 3

[8] $6\frac{2}{3}$

[9] 3 quarts

[10] $1\frac{3}{4}$ gallons

[11] \$3.51

[12] No. There is only 7 oz of spaghetti left and Lindsay needs 9 oz for another meal.

[13] about 25° F

[14] 10° C

[15] -5° C

[16] -46.5° F