|  |  |
| --- | --- |
| **1.** | https://i.gyazo.com/3129a25bf73ef771d49007741bffa410.png  . |

|  |  |
| --- | --- |
| **2.** | Meena has two boxes. The first box weighs /files/assess_files/dd4cf7df-e262-402d-8dc7-f21e02975fe6/56ac5f0f-5189-4aa9-aaed-2f2f34bafeda.png pounds. The second box weighs 4 /files/assess_files/dd4cf7df-e262-402d-8dc7-f21e02975fe6/65558cfd-dbc4-40cf-a849-93ec836db77e.png pounds. How much heavier is the second box? |
|  |  |

|  |  |
| --- | --- |
| **3.** | What is the value of x if:  3.5 + x = 8.25 |
|  |  |
| **4.** | What is the solution to the equation below?  15 + 9 = *x*(5 + 3) |
|  |
|  | |  |  | | --- | --- | | **A.** | 3 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 5 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 12 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 16 | |
| **5.** | Andy runs the same number of miles, *x*, every day. His total distance run for one week is less than 60 miles. Which inequality represents how many miles Andy runs each day? |
|  |
|  | |  |  | | --- | --- | | **A.** | 7 + x > 60 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 7 + x < 60 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 7x > 60 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 7x < 60 | |
|  |  |
| 6. | .https://i.gyazo.com/6da0680c4171d4bfb5d9d623103748e1.png |
|  |
|  | |  |  | | --- | --- | | **A.** | 1/2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 2/3 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4/3 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 5/2 | |
|  |  |

|  |  |
| --- | --- |
| **7.** | If *y* = 11, what is the value of *z* in the equation *z* + 2 = *y*? |
|  |
|  | |  |  | | --- | --- | | **A.** | 9 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 11 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 13 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 22 | |  |  | |

|  |  |
| --- | --- |
| **8.** | In which equation does *x* = 12? |
|  |
|  | |  |  | | --- | --- | | **A.** | 6 + *x* = 18 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 5 + *x* = 18 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 4 – *x =* 8 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 4 – *x* = 16 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **9.** | Lisa wants to buy a wallet for $29.90, including tax. Which equation can be used to represent how much change, *x*, Lisa will receive if she pays with a $50 bill? |
|  |
|  | |  |  | | --- | --- | | **A.** | *x* + 50 = 29.90 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *x* – 50 = 29.90 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x* – 29.90 = 50 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *x* + 29.90 = 50 | |
|  |  |
|  |  |
| 10. | Tasha bought 5 blueberry pies. All the pies were the same price. She spent $35.75. What equation could be used to find the price of one pie, x? |
|  |
|  | |  |  | | --- | --- | | **A.** | *x* ÷ 5 = 35.75 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 5*x* = 35.75 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 35.75 + *x* = 5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 5 +*x*= 35.75 | |

|  |  |
| --- | --- |
| **11.** | Two equations are shown below.   *m* + 2.2 = 7.3  *n –* 2.4 = 8.9  Based on the values of m and n, which is correct? |
|  |
|  | |  |  | | --- | --- | | **A.** | *n* < *m* | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *m <n* | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *n* = 6.5 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *m* = 9.5 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **12.** | The area of a rectangle is 241.92 cm2. The length is 19.2 cm. What is the width of this rectangle? |
|  |
|  | |  |  | | --- | --- | | **A.** | 12.60 cm | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | 12.74 cm | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | 101.76 cm | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | 111.76 cm | |
|  |  |
|  |  |
| **13.** | Which graph represents the solution set for *x* > –3? |
|  |
|  | |  |  | | --- | --- | | **A.** | /files/assess_files/8e7a13f8-312e-4d0e-a066-081728dbcaf5/images/24986.png | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | /files/assess_files/5fb0b917-3b73-4392-9281-f01d10c25859/images/24987.png | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | /files/assess_files/b89cee11-d65b-47b9-8616-26f10fd35298/images/24988.png | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | /files/assess_files/34230105-da53-417e-a0ea-50d7488135c4/images/24989.png | |
|  |  |
|  |  |
| **14.** | A class needs at least 65 sandwiches for a picnic. Which inequality represents the number of sandwiches, *n*, the class needs for the picnic? |
|  |
|  | |  |  | | --- | --- | | **A.** | *n* > 65 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *n* < 65 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *n* ≥ 65 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *n* ≤ 65 | |
|  |  |
|  |  |
| **15.** | Which inequality represents the graph below?  /files/assess_files/3afeafb6-aabc-431c-b19f-127acb914b63/images/25008.png |
|  |
|  | |  |  | | --- | --- | | **A.** | *x* > 2 | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *x* < 2 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *x* ≥ 2 | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *x* ≤ 2 | |
|  |  |
|  |  |
| **16.** | Which set of values would make the inequality 0.35 + *p* ≤ 1.76 true? |
|  |
|  | |  |  | | --- | --- | | **A.** | {1.15, 1.27, 1.45} | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | {1.25, 1.31, 1.41} | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | {1.41, 1.53, 1.65} | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | {2.11, 2.25, 2.42} | |
|  |  |
|  |  |
| **17.** | Tonya pays $300 each month to rent an office where she earns $25 per hour tutoring students. Which equation represents Tonya’s profit, *y*, for working *x* hours? |
|  |
|  | |  |  | | --- | --- | | **A.** | y = 25 + 300x | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | y = 25x + 300 | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | y = 25 - 300x | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | y = 25x - 300 | |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **18.** | A school band is selling boxes of fruit. The graph below shows how much the band earns based on the number of boxes they sell.  /files/assess_files/bf5402a8-4975-4907-9ee1-db061cfb273d/41970.png  Which equation represents the amount of money the band will earn if they sell *x* boxes of fruit? |
|  |
|  | |  |  | | --- | --- | | **A.** | *y* = 5 + *x* | |
|  |  |
|  | |  |  | | --- | --- | | **B.** | *y* = 5*x* | |
|  |  |
|  | |  |  | | --- | --- | | **C.** | *y* = 10 + *x* | |
|  |  |
|  | |  |  | | --- | --- | | **D.** | *y* = 10*x* | |
|  |  |
|  |  |