MATH PROJECT

* Find the name of one mathematician.
* Write his/her biography.
* Find in weebly (document) the list of Focus Questions, and select one problem.
* Write the steps to solve the problem, explaining each step.
* Model the problem (make a diagram, a graph, a table, colored squares to represent fractions, etc) to explain the solution of the problem.

**These questions are for 6th Grade only.**

Select one of these problems. Remember that the solution is not only select one of the answer from the multiple choices, but you have **TO EXPLAIN** all the steps to find the solution.

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| --- | --- |
|  | Big Idea 1: MA.6.A.1.1: First Assessment |
| **1)** | A cookie recipe uses http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/4_and_1_2.gifcups of flour. Which expression can be used to determine the number of cups of flour needed to make http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifthe recipe? |
|  | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif(4 + http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif) | |  | **B.** | (http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif × 4 + http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif) | |  | **C.** | (http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif × 4 × http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif) | |  | **D.** | (http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif × 4) × (http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif × http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif) | |
|  | Big Idea 1: MA.6.A.1.1: First Assessment |
| 2) | Juanita and her parents are painting her bedroom. They have one bucket of red paint. After painting the first 3 walls, only http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gifof the paint remained. Juanita used http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gifof the remaining paint on the last wall.  Which expression can be used to find out how much paint Juanita and her parents used on the last wall?  http://focus.florida-achieves.com/student/images/math/6/6A11MC2.gif |
|  | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_9.gif | |  | **B.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif | |  | **C.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_9.gif | |  | **D.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif+ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif | |
|  | Big Idea 1: MA.6.A.1.1: First Assessment |
| 3) | Tyrone is selling 4 pizzas by the slice to help raise money for the marching band. After lunch, he has 2 http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gifpizzas remaining. During dinner he sells http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gifof the remaining pizza.  Which expression can be used to find the amount of all 4 pizzas Tyrone sold during dinner? |
|  | |  |  |  | | --- | --- | --- | |  | **A.** | 2 http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |  | **B.** | 2 http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif | |  | **C.** | 2 http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |  | **D.** | 2 http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif+ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |
|  | Big Idea 1: MA.6.A.1.1: First Assessment |
| 4) | James is taking different measurements of his arms and hands. His left arm is 44.5 cm long from elbow to fingertip. He then measures his left hand to be 18.5 cm long from wrist to fingertip.  Which expression can be used to find how much of James' arm length is taken up by his hand?  http://focus.florida-achieves.com/student/images/math/6/6A11MC4.gif |
|  | |  |  |  |  | | --- | --- | --- | --- | |  | | **A.** | 44.5 − 18.5 | |  | | **B.** | 18.5 × 44.5 | |  | | **C.** | 18.5 ÷ 44.5 | |  | | **D.** | 44.5 + 18.5 | |  | | Big Idea 1: MA.6.A.1.1: First Assessment | | | | 5) | | George and his two sisters combine their money together to buy their parents a gift. They spend http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_4.gifof the money on the gift and want to redistribute the rest equally among themselves.  Which expression can be used to find the fraction of the original money each will have after buying the gift? | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_4.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |  | **B.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |  | **C.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_4.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | |  | **D.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gif | | | | |  | | | | | | | | Big Idea 1: MA.6.A.1.1: Second Assessment | | **6)** | | | | | | | | Robert borrowed $20 from his father. He pays his father http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof the $20 after one week. The second week, he pays back http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gifof the remaining amount owed.  Which expression can be used to find the amount of money Robert paid his father during the second week? | |  | | | | | | | | |  |  |  | | --- | --- | --- | |  | **A.** | $20 × http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif | |  | **B.** | $20 − http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif | |  | **C.** | $20 × http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif | |  | **D.** | $20 − http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif+ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif | | |  | | Big Idea 1: MA.6.A.1.1: Second Assessment | | | | | | | | **7)** | | Peter is reading a new novel. Before he started reading on Saturday morning, he had http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_5.gifof the novel remaining. By the end of the weekend he had read http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof the remaining pages.  What expression can be used to find the fraction of the entire novel Peter has left over at the end of the weekend? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_5.gif+ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_10.gif | |  | **B.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_5.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | |  | **C.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_5.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | |  | **D.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_5.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/3_10.gif | | | | | | | | |  | | Big Idea 1: MA.6.A.1.1: Second Assessment | | | | | | | | **8)** | | Bill is selling funnel cakes at the county fair. After lunch, he has http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gifof his original funnel cakes remaining. That evening, when the fair closes, he determines he sold http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_8.gifof the remaining funnel cakes.  What expression can be used to find the fraction of the original funnel cakes Bill sold after lunch? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif+ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_8.gif | |  | **B.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_8.gif | |  | **C.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_8.gif | |  | **D.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gif− http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_8.gif | | | | | | | | |  | | Big Idea 1: MA.6.A.1.1: Second Assessment | | | | | | | | **9)** | | Penelope is going on a cross-country car trip with her family. She calculates the distance between landmarks to pass the time. This afternoon her family drove 88.7 miles from Dinosaurland to Mt. Rushmore. Her dad mentions that they drove a total of 254.8 miles that day.  Which expression can be used to find how much of Penelope's trip today was taken up by travelling from Dinosaurland to Mt. Rushmore? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | 254.8 − 88.7 | |  | **B.** | 88.7 × 254.8 | |  | **C.** | 88.7 ÷ 254.8 | |  | **D.** | 254.8 + 88.7 | | | | | | | | |  | | Big Idea 1: MA.6.A.1.1: Second Assessment | | | | | | | | **10)** | | Jean and Kirk want to trade some of the marbles in their collection for some candy one of their friends has. They decide to trade http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_6.gifof their marbles and redistribute the rest equally among themselves.  Which expression can be used to find the fraction of the original number of marbles each will have after trading for the candy? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_6.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | |  | **B.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_6.gif× http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | |  | **C.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_6.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | |  | **D.** | http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/5_6.gif÷ http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gif | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: First Assessment | | | | | | | | **11)** | | While shopping, Tabitha found a CD with an sale tag indicating that the CD was http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof its original price. When she got to the checkout, she discovered that the CD was actually http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof the sale price. The original price of the CD was $24. How much money did Tabitha save on the CD? | | | | | | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 6 |  | | |  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 12 |  | | |  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 18 |  | | |  | **D.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 20 |  | | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: First Assessment | | | | | | | | **12)** | | Kobe purchased a kayak at http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gifoff of its original price of $400. If he has a coupon for an additional http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_10.gifoff, what is the total amount of money that Kobe will save on the kayak? | | | | | | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 10 |  | | |  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 110 |  | | |  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 130 |  | | |  | **D.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 270 |  | | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: First Assessment | | | | | | | | **13)** | | Peggy works in the concession stand at a local theater, making popcorn. She knows that one box of popcorn kernels will make 40http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_8.gif cups of popcorn. She also knows that each concession bag holds a maximum of 2http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gif cups of popcorn. What is the minimum number of concession bags Peggy needs to hold all of the popcorn made from one box of popcorn kernels? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | 18 | |  | **B.** | 21 | |  | **C.** | 43 | |  | **D.** | 81 | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: First Assessment | | | | | | | | **14)** | | Donnie's English teacher gave him a 64-page reading assignment over the weekend. After school on Friday, he read http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_4.gifof the assignment. On Saturday, he read http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof the remaining pages. How many pages will Donnie have to read on Sunday to complete the assignment? | | | | | | | |  | | Gridded Response | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: First Assessment | | | | | | | | **15)** | | The cost for Laurel's meal in a restaurant was $14.00. Laurel left 0.20 of the cost of her meal on the table as a tip for the waiter. When she went to the cash register to pay for her meal, she also had to pay 0.07 of the price of her meal for sales tax.  What is the total amount, **in dollars and cents**, that Marci spent for her meal, including tip and tax? | | | | | | | |  | | Gridded Response | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: Second Assessment | | | | | | | | **16)** | | Trey purchased a boom box that was marked down to http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifof its original price. The boom box was then marked down further to http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_3.gifof the marked down price. The original price was $60. What was the total amount of the discount? | | | | | | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 10 |  | | |  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 30 |  | | |  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 40 |  | | |  | **D.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 50 |  | | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: Second Assessment | | | | | | | | **17)** | | Maria bought a television at http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_5.gifoff of its original price of $250. She had a coupon for an additional http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_2.gifoff. What is the total amount of money that Maria saved on the television? | | | | | | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 25 |  | | |  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 100 |  | | |  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 125 |  | | |  | **D.** | |  |  |  |  | | --- | --- | --- | --- | | $ |  | 150 |  | |  |  |  |  | | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: Second Assessment | | | | | | | | **18)** | | Bob works as a car mechanic at the local gas station. His most common job is performing oil changes. Currently, Bob has a barrel containing 86.4 quarts of oil. He knows that each oil change will use up exactly 5.6 quarts of oil.  What is the maximum number of oil changes Bob can perform before he runs out of oil? | | | | | | | |  | | |  |  |  | | --- | --- | --- | |  | **A.** | 15 | |  | **B.** | 16 | |  | **C.** | 17 | |  | **D.** | 18 | | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: Second Assessment | | | | | | | | **19)** | | Ms. Feldman has 30 students in her Math class. Today, she gave her students a quiz and told them they had 15 minutes to finish. After the first 5 minutes, http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/1_5.gifof the class had completed the quiz. Over the next 5 minutes, http://focus.florida-achieves.com/(S(c5sywh55u113jb45aqwl2d45))/student/images/math/2_3.gifof the remaining students completed the quiz.  How many students in Ms. Feldman's class were still taking the quiz during the final 5 minutes? | | | | | | | |  | | Gridded Response | | | | | | | |  | | Big Idea 1: MA.6.A.1.3: Second Assessment | | | | | | | | **20)** | | The cost for Marci's meal in a restaurant was $20.00. Marci left 0.15 of the cost of her meal on the table as a tip for the waiter. When she went to the cash register to pay for her meal, she also had to pay 0.08 of the price of her meal for sales tax.  What is the total amount, in dollars and cents, that Marci spent for her meal, including tip and tax? | | | | | | | |  | | |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.1: First Assessment | | **21)** | Shane has a plant that he waters twice a day. He created the table below so that he could record the height of his plant every other day. In Shane's table, *x* represents the day on which he recorded the plant's height, and *y* represents the plant's height in centimeters.  Based on the information shown in the table, which expression can be used to describe *y*?  http://focus.florida-achieves.com/student/images/math/6/6A31MC1.gif | |  | |  |  |  | | --- | --- | --- | |  | **A.** | *x* | |  | **B.** | *x* + 2 | |  | **C.** | 3*x* − 6 | |  | **D.** | 2*x* – 3   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.1: First Assessment | | **22)** | Sheila is going with her friends to the county fair. The admission price for the county fair is $5, and ride tickets cost $1 each.  Which expression represents the total amount of money Sheila will spend on admission and rides if she purchases *x* ride tickets? | |  | |  |  |  | | --- | --- | --- | |  | **A.** | 1*x* − 5 | |  | **B.** | 5 + 1*x* | |  | **C.** | 1 + 5*x* | |  | **D.** | 5*x* + 5   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.1: First Assessment | | **23)** | Debbie and Judy are sisters. If *d* represents Debbie's age, and Judy's age is two less than three times Debbie's age, which expression represents Judy's age? | |  | |  |  |  | | --- | --- | --- | |  | **A.** | 3*d* + 2 | |  | **B.** | (3 − 2)*d* | |  | **C.** | 2 − 3*d* | |  | **D.** | 3*d* – 2   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.1: First Assessment | | **24)** | The normal boiling point of water is 100 degrees Celsius. The normal boiling point of water in degrees Fahrenheit can be calculated using the expression below.  **1.8*C* + 32**  In this expression, *C* represents the normal boiling point of water in degrees Celsius.  What is the normal boiling point of water in degrees Fahrenheit?   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.1: First Assessment | | **25)** | While shopping online, Bob found an Italian soccer shirt with a cost of 60 Euros. If *e* represents the cost in Euros, the cost of the shirt in American dollars can be calculated using the expression below.  **1.49*e***  What is the list price, in American dollars, of the soccer shirt?   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.5: First Assessment | | **26)** | Tom wants to put a fence around the perimeter of a rectangular garden that is 12 feet long and 4 feet wide. The perimeter of the garden can be represented using the expression below.  **2(*l* + *w*)**  Using only the distributive property, which expression also correctly represents the perimeter of the garden?  http://focus.florida-achieves.com/student/images/math/6/6A35MC1.gif | |  | |  |  |  | | --- | --- | --- | |  | **A.** | w(2 + *l*) | |  | **B.** | 2*l* + 2*w* | |  | **C.** | 2*lw* | |  | **D.** | 2*l* + *w*   |  |  | | --- | --- | |  | MA.6.A.3.5: First Assessment | | **27)** | Which expression is equivalent to x + (4xy + 2y − 3) using **only** the associative property? | |  | |  |  |  |  | | --- | --- | --- | --- | |  | | **A.** | (x − 3) + (4xy + 2y) | |  | | **B.** | (1 + 4y) · x + (2y − 3) | |  | | **C.** | (x + 4xy + 2y) − 3 | |  | **D.** | | x + 2(y + 4x) – 3   |  |  | | --- | --- | |  | Big Idea 3: MA.6.A.3.5: First Assessment | | **28)** | Which expression is the additive inverse of 2u − 4(v + 2)? | |  | |  |  |  | | --- | --- | --- | |  | **A.** | -2u − 4(v − 2) | |  | **B.** | -2u + 4(v − 2) | |  | **C.** | -2u − 4(v + 2) | |  | **D.** | -2u + 4(v + 2)   |  |  | | --- | --- | |  |  | |  |  | |  |  | | | | | | | | | | | | | | | | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | |  | | | | | | | |  | | | |  | | | | | | |  | | | |  | | | | | | |  | | | |  | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | |  | |  | | | | | | | | |
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