Week 1 ----Grade 3 going to Grade 4

Summer Package
Grade 3 going to Grade 4
(Week 1)
2018

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Name _____ Date _____

1. Mr. Lewis arranges all the desks in his classroom into 6 equal groups of 4. How many desks are in his classroom? Show a picture and multiplication sentence in your work.

   a. What does the product in your multiplication sentence represent?

   b. Fill in the blanks below to complete a related division sentence.

      _____ ÷ 4 = _____

   c. What does the quotient in Part (b) represent?

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2. a. Draw an array that shows 9 rows of 2. Write a multiplication sentence to represent the array, and circle the factor that represents the number of rows.

   b. Draw another array that shows 2 rows of 9. Write a different multiplication sentence, and circle the factor that represents the size of the row.

   c. Explain the relationship between the two arrays using number sentences and words.

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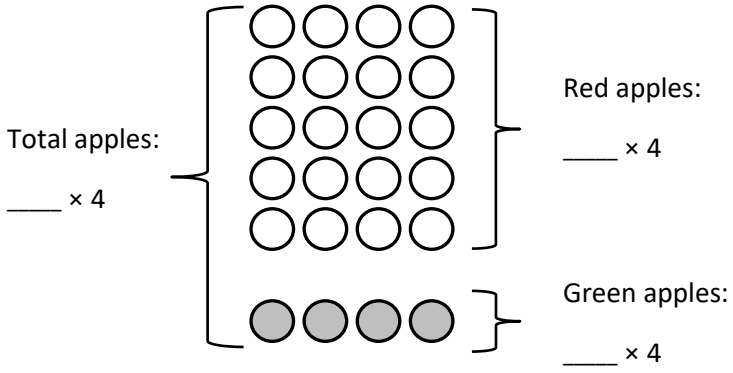
3. Ms. Park buys a tray of apples for a class party. There are 5 rows of 4 red apples. There is 1 row of 4 green apples.

   a. The picture below shows Ms. Park's apples. Fill in the blanks to complete the expressions.



   b. Fill in the unknowns in the equation below to match the picture of the apples in Part (a). Use the break apart and distribute strategy to find the total number of apples Ms. Park bought.

_____ × 4 = _____ × 4 + _____ × 4

Ms. Park bought _____ apples.

   c. Lilly brings 8 green apples for the class party. Show Lilly's green apples on the picture in Part (a). Then, fill in the unknowns in the equation below to match the new picture. Solve to find the total number of apples.

_____ × 4 = _____ × 4 + _____ × 4

There are _____ apples in all.

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4. Mr. Myer's class plays a game. The class earns 5 points each time they answer a question correctly. The class earns 50 points playing the game on Monday.

   a. How many questions did the class answer correctly? Show a picture and division sentence in your work.

   b. Mr. Myer uses the equation 5 × _____ = 50 to find how many questions the class answered correctly. Is his method correct? Why or why not?

   c. The class answered 7 questions correctly on Tuesday. What is the total number of points the class earned on both days?

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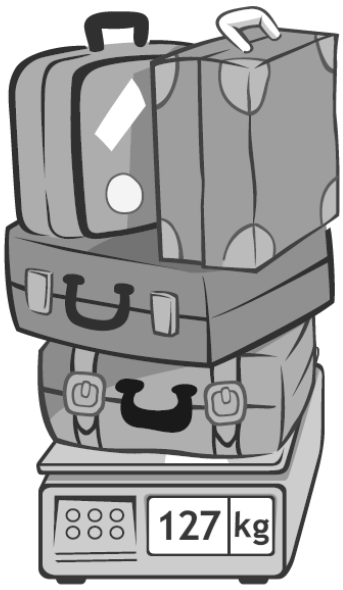
5. Paul is moving to Australia. The total weight of his 4 suitcases is shown on the scale to the right. On a number line, round the total weight to the nearest 100 kilograms.



6. Paul buys snacks for his flight. He compares cashews to yogurt raisins. The cashews weigh 205 grams, and the yogurt raisins weigh 186 grams. What is the difference between the weight of the cashews and yogurt raisins?

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7. The clock to the right shows what time it is now.

   a. Estimate the time to the nearest 10 minutes.

Time Right Now

   b. The clock to the right show Paul's departure time. Estimate the time to the nearest 10 minutes.

Departure Time

   c. Use your answers from Parts (a) and (b) to estimate how long Paul has before his flight leaves.

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8. A large airplane uses about 256 liters of fuel every minute.

   a. Round to the nearest ten liters to estimate how many liters of fuel get used every minute.

   b. Use your estimate to find about how many liters of fuel are used every 2 minutes.

   c. Calculate precisely how many liters of fuel are used every 2 minutes.

   d. Draw a tape diagram to find the difference between your estimate and the precise calculation.

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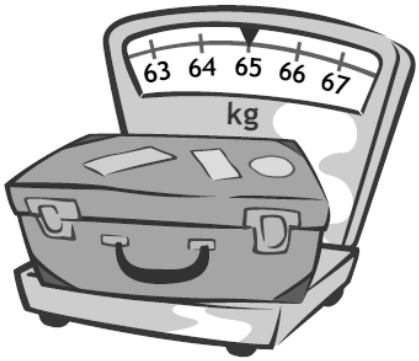
9. Baggage handlers lift heavy luggage into the plane. The weight of one bag is shown on the scale to the right.



a. One baggage handler lifts 3 bags of the same weight. Round to estimate the total weight he lifts. Then, calculate exactly.

b. Another baggage handler lifts luggage that weighs a total of 200 kilograms. Write and solve an equation to show how much more weight he lifts than the first handler in Part (a).

c. The baggage handlers load luggage for 18 minutes. If they start at 10:25 p.m., what time do they finish?

d. One baggage handler drinks the amount of water shown below every day at work. How many liters of water does he drink during all 7 days of the week?