

Eureka Math™ Assessment Packet

Grade 3 Modules 1 & 2

Module 1

Mid-Module Assessment	Qty: 30
End-of-Module Assessment	Qty: 30

Module 2

Mid-Module Assessment	Qty: 30
End-of-Module Assessment	Qty: 30

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Name _____

Date _____

1. Mrs. Tran plants 2 rows of 5 carrots in her garden.

a. Draw an array that represents Mrs. Tran's carrots. Use an X to show each carrot.

b. Mrs. Tran adds 3 more rows of 5 carrots to her garden.

- Use circles to show her new carrots on the array in Part (a).
- Fill in the blanks below to show how she added the five rows.

_____ fives + _____ fives = _____ fives

- Write a sentence to explain your thinking.

c. Find the total number of carrots Mrs. Tran planted.

d. Write a multiplication sentence to describe the array representing the total number of carrots Mrs. Tran planted.

2. Mrs. Tran picks 15 tomatoes from her garden. She puts 5 tomatoes in each bag.
- a. Draw Mrs. Tran's bags of tomatoes.

- b. Write a multiplication sentence that describes your drawing in Part (a).

3. Mrs. Tran plants 12 sunflowers in her garden. She plants them in 3 rows.

- a. Fill in the blanks below to make a true division sentence. What does the answer represent?

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- b. Mrs. Tran adds 2 more identical rows of sunflowers to her 3 original rows. Draw an array to show how many flowers she has now.

- c. Mrs. Tran figured out how many flowers she planted. Her work is shown in the box below. Would Mrs. Tran get the same result if she multiplied 5×4 ? Explain why or why not.

$\begin{aligned} (3 \times 4) + (2 \times 4) &= 12 + 8 \\ &= 20 \end{aligned}$
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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?

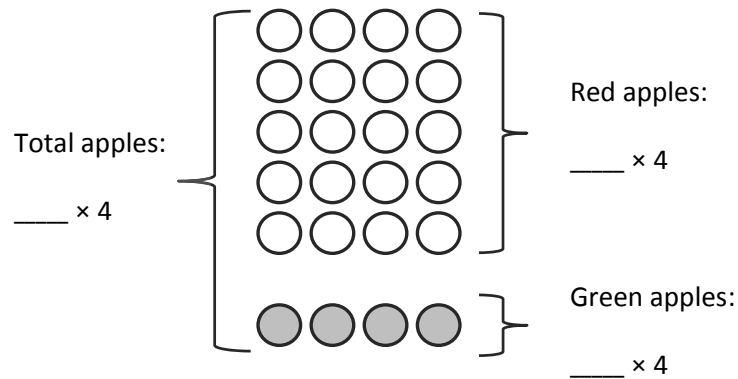
b. Fill in the blanks below to complete a related division sentence.

$$\underline{\hspace{2cm}} \div 4 = \underline{\hspace{2cm}}$$

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

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.

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.

$$\underline{\quad} \times 4 = \underline{\quad} \times 4 + \underline{\quad} \times 4$$

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.

$$\underline{\quad} \times 4 = \underline{\quad} \times 4 + \underline{\quad} \times 4$$

There are _____ apples in all.

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 $5 \times \underline{\hspace{2cm}} = 50$ 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?

5. Complete as many problems as you can in 100 seconds. Your teacher will time you and tell you when to stop.

$4 \times 1 = \underline{\quad}$ $3 \div 1 = \underline{\quad}$ $10 \times \underline{\quad} = 20$ $2 \times 3 = \underline{\quad}$ $10 \div 5 = \underline{\quad}$

$4 \div 2 = \underline{\quad}$ $2 \times \underline{\quad} = 4$ $15 \div 5 = \underline{\quad}$ $10 \times 3 = \underline{\quad}$ $4 \times \underline{\quad} = 12$

$3 \times 3 = \underline{\quad}$ $5 \times \underline{\quad} = 15$ $16 \div 4 = \underline{\quad}$ $2 \times \underline{\quad} = 8$ $10 \times 4 = \underline{\quad}$

$2 \times 4 = \underline{\quad}$ $12 \div 4 = \underline{\quad}$ $4 \times \underline{\quad} = 20$ $5 \times 5 = \underline{\quad}$ $50 \div 10 = \underline{\quad}$

$15 \div 3 = \underline{\quad}$ $2 \times \underline{\quad} = 10$ $24 \div 4 = \underline{\quad}$ $10 \times 6 = \underline{\quad}$ $5 \times \underline{\quad} = 30$

$2 \times 6 = \underline{\quad}$ $4 \times \underline{\quad} = 24$ $35 \div 5 = \underline{\quad}$ $3 \times \underline{\quad} = 21$ $10 \times 7 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$ $14 \div 2 = \underline{\quad}$ $3 \times \underline{\quad} = 24$ $5 \times 8 = \underline{\quad}$ $80 \div 10 = \underline{\quad}$

$32 \div 4 = \underline{\quad}$ $10 \times \underline{\quad} = 80$ $27 \div 3 = \underline{\quad}$ $2 \times 9 = \underline{\quad}$ $5 \times \underline{\quad} = 45$

Name _____

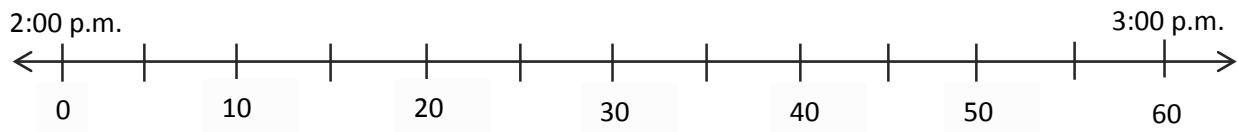
Date _____

1. Fatima runs errands.

- a. The clock to the right shows what time she leaves home. What time does she leave?

Fatima leaves home.

- b. It takes Fatima 17 minutes to go from her home to the market. Use the number line below to show what time she gets to the market.

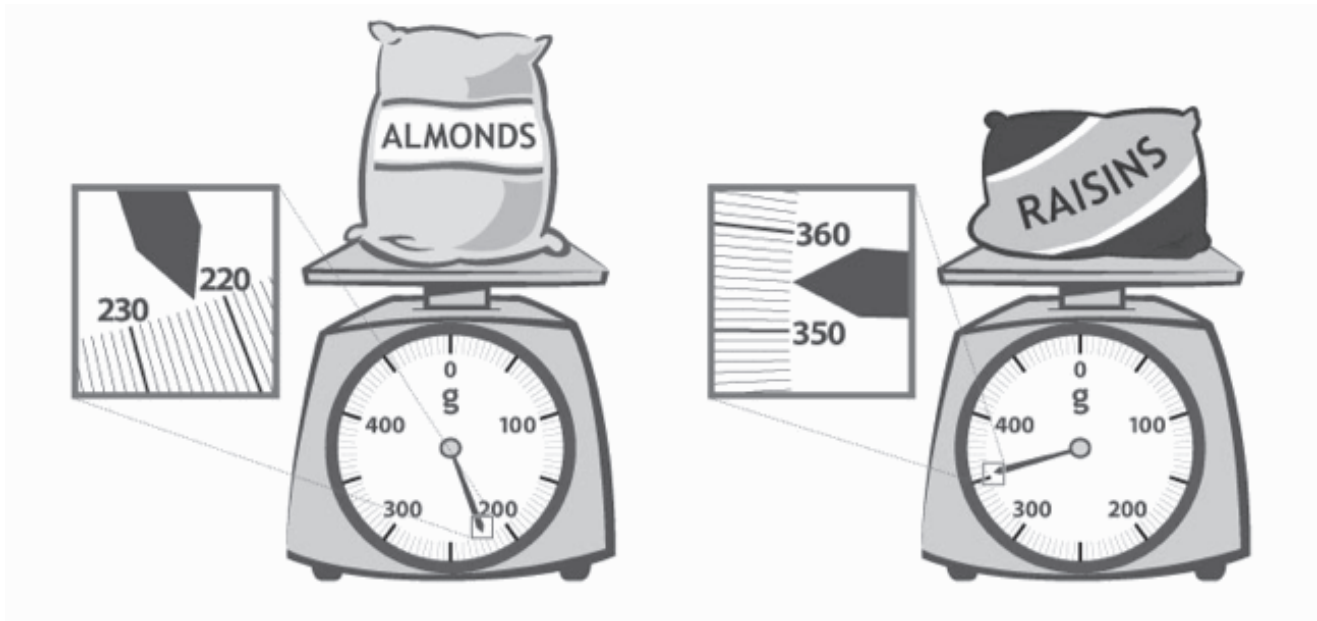


- c. The clock to the right shows what time Fatima leaves the market. What time does she leave the market?

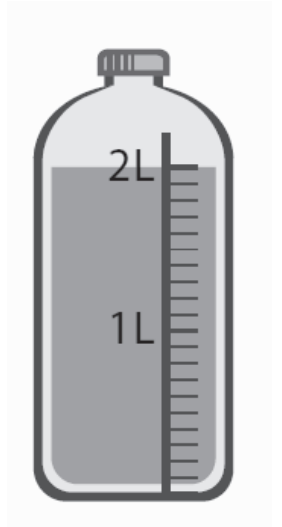
Fatima leaves the market.

- d. How long does Fatima spend at the market?

2. At the market, Fatima uses a scale to weigh a bag of almonds and a bag of raisins, shown below. What is the total weight of the almonds and raisins?



3. The amount of juice in 1 bottle is shown to the right. Fatima needs 18 liters for a party. Draw and label a tape diagram to find how many bottles of juice she should buy.

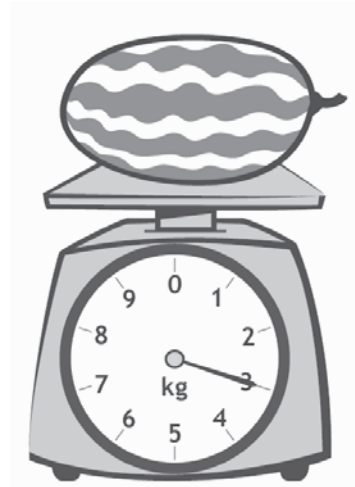


4. Altogether, Fatima's lettuce, broccoli, and peas weigh 968 grams. The total weight of her lettuce and broccoli is shown to the right. Write and solve a number sentence to find how much the peas weigh.



5. Fatima weighs a watermelon, shown to the right.

a. How much does the watermelon weigh?



b. Leaving the store Fatima thinks, “Each bag of groceries seems as heavy as a watermelon!” Use Fatima’s idea about the weight of the watermelon to estimate the total weight of 7 bags.

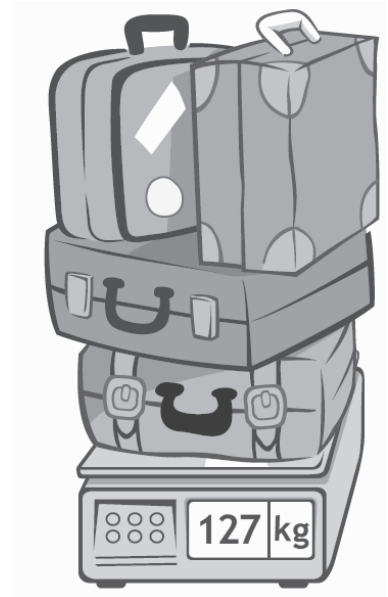
c. The grocer helps carry about 9 kilograms. Fatima carries the rest. Estimate how many kilograms of groceries Fatima carries.

d. It takes Fatima 12 minutes to drive to the bank after she leaves the store and then 34 more minutes to drive home. How many minutes does Fatima drive after she leaves the store?

Name _____

Date _____

1. 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.



2. 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?

3. 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.

4. A large airplane uses about 256 liters of fuel every minute.
- Round to the nearest ten liters to estimate how many liters of fuel get used every minute.
 - Use your estimate to find about how many liters of fuel are used every 2 minutes.
 - Calculate precisely how many liters of fuel are used every 2 minutes.
 - Draw a tape diagram to find the difference between your estimate and the precise calculation.

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

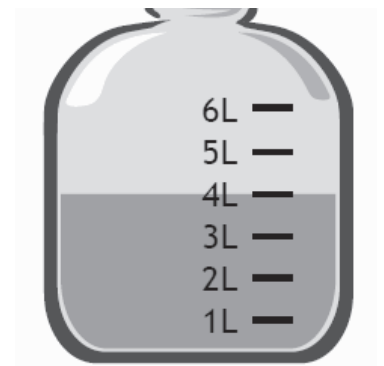


a. One baggage handler lifts 3 bags of the same weight. Round to estimate the total weight he lifts. Then, calculate exactly.

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?



6. Complete as many problems as you can in 100 seconds. The teacher will time you and tell you when to stop.

$3 \times 1 = \underline{\quad\quad\quad}$ $2 \div 1 = \underline{\quad\quad\quad}$ $\underline{\quad\quad\quad} = 20 \div 10$ $2 \times 2 = \underline{\quad\quad\quad}$ $5 \times \underline{\quad\quad\quad} = 10$

$\underline{\quad\quad\quad} \times 2 = 4$ $10 \div 5 = \underline{\quad\quad\quad}$ $10 \times \underline{\quad\quad\quad} = 30$ $\underline{\quad\quad\quad} = 2 \times 3$ $\underline{\quad\quad\quad} = 12 \div 4$

$4 \times 3 = \underline{\quad\quad\quad}$ $15 \div 5 = \underline{\quad\quad\quad}$ $\underline{\quad\quad\quad} \times 4 = 16$ $\underline{\quad\quad\quad} = 40 \div 10$ $2 \times 4 = \underline{\quad\quad\quad}$

$3 \times 4 = \underline{\quad\quad\quad}$ $4 \times \underline{\quad\quad\quad} = 12$ $20 \div 4 = \underline{\quad\quad\quad}$ $\underline{\quad\quad\quad} = 10 \times 5$ $\underline{\quad\quad\quad} \times 5 = 25$

$4 \times \underline{\quad\quad\quad} = 20$ $\underline{\quad\quad\quad} = 10 \div 2$ $\underline{\quad\quad\quad} \times 3 = 18$ $10 \times 6 = \underline{\quad\quad\quad}$ $30 \div 5 = \underline{\quad\quad\quad}$

$3 \times 6 = \underline{\quad\quad\quad}$ $\underline{\quad\quad\quad} = 24 \div 4$ $5 \times \underline{\quad\quad\quad} = 35$ $\underline{\quad\quad\quad} = 10 \times 7$ $14 \div 2 = \underline{\quad\quad\quad}$

$2 \times 7 = \underline{\quad\quad\quad}$ $\underline{\quad\quad\quad} \times 4 = 28$ $\underline{\quad\quad\quad} = 40 \div 5$ $10 \times \underline{\quad\quad\quad} = 80$ $\underline{\quad\quad\quad} = 3 \times 8$

$24 \div 3 = \underline{\quad\quad\quad}$ $80 \div 10 = \underline{\quad\quad\quad}$ $36 \div 4 = \underline{\quad\quad\quad}$ $5 \times 9 = \underline{\quad\quad\quad}$ $2 \times \underline{\quad\quad\quad} = 18$