

Advanced 1

Exit Tickets

This document contains printable and customizable versions of the Exit Tickets recommended
in the Into Math Teacher Edition. The Exit Ticket is also available as a Projectable PDF on
Ed: Your Friend in Learning.

Exit Tickets are an optional way to wrap up a lesson. The problem provided for each lesson assesses
whether students grasped the lesson content.

To save paper when printing, the document is formatted with 2 to a page for some lessons and 4 to a page
in other lessons, based on the space students will likely need to answer the question(s).

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Module 1 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jackson records the elevations, relative to sea level, that two fish are swimming. The first fish was at −6 feet, and the second was at −11 feet.

What are the opposite elevations and what do they represent?

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Module 1 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Madeline lives on a farm. Each time it rains, she uses a rain

gauge to measure how much rain has fallen. For four

months, she records the following differences (in inches) in

the rainfall this year compared to the same month last year:

1.9, –0.6, $-\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{10}$.

Write the differences from least to greatest.

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Module 1 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Three fish are swimming at three different elevations:

−1 foot, −5 feet, and −8 feet. Which fish is closest to the

surface of the water? How do you know?

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Donovan spent $\frac{2}{15}$ hour walking to the mailbox, $\frac{1}{6}$ hour

walking to the library, and $\frac{2}{10}$ hour walking to the park.

Which one took Donovan the longest amount of time to

walk to?

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changes: −2.49, 0.15, $1\frac{2}{10}$ , $-\frac{8}{5}$

What are the stock price changes from least to greatest?

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Module 2 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Joe has $\frac{7}{4}$ trays of deviled eggs left over after a family gathering. He transfers them into smaller containers to store them. If each container holds $\frac{1}{3}$ tray of deviled eggs, how many containers will Joe completely fill with the leftover deviled eggs?

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The students of a school fill $4\frac{1}{2}$ buses for a field trip. Each

class fills $\frac{3}{4}$ bus. How many classes are riding on the buses?

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Tansy has $6\frac{1}{4}$ bags of potting soil to use in flower pots. Each flower pot uses $\frac{1}{5}$ bag of soil. How many flower pots can she fill with potting soil?

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In a tropical year, it takes 365.242 days for Earth to travel

around the Sun. In a Sidereal year, it takes 365.256 days.

What is the difference in days between these two

measurements of one year?

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Merrick’s house is on a property lot that is 0.875 acre. The

house takes up 0.85 of the total property lot. What is the

area that Merrick’s house sits upon?

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Chris’s family is buying a camping trailer. The trailer costs

$11,834. Each month, they can afford a payment of $200

and not a penny more.

How many months will Chris’s family have to make payments to pay off the trailer in full? Will the last payment be a full payment of $200?

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Module 3 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A crate of limes weighs 33.39 pounds. If a lime weighs

approximately 0.21 pound, about how many limes does the

crate contain?

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The cost of 6.46 pounds of avocados is $9.69. How much

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Module 4 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nilda has 40 points on a game show. She answers the next

question incorrectly and loses 50 points. Sketch a number

line to find the new score.

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Module 4 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Elias is playing a board game and has 35 points. He chooses

a card that tells him how many points to add to his score.

The value on the card is –45. Write an addition expression

to represent this situation and find the sum.

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Travis starts a hike at 10.2 meters above sea level. During

the hike, he descends a total of 12.6 meters. What is his final

elevation? What addition or subtraction equation represents the situation?

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The morning temperature in Newtown was –5.2 °F. As the

day progressed a warm front moved in from the south, and

the temperature rose 28.8 °F. Write and evaluate an

expression showing the current temperature in Newtown.

Module 5 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 5 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The temperature in Fairfield is 8.4 °F and drops to –12.7 °F

due to an Alberta Clipper. Write and evaluate a subtraction

expression to determine the change in temperature.

Module 5 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 5 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Summarize the rule for multiplying or dividing two numbers with the same sign. Summarize the rule for multiplying or dividing two numbers with different signs.

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Module 5 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write $-4\frac{2}{7}$ as a fraction in three different ways. Then explain why it is or is not a rational number.

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Module 5 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write $-4\frac{2}{7}$ as a fraction in three different ways. Then explain why it is or is not a rational number.

Module 5 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

An ant crawls on a wall along a vertical path. The ant’s initial

elevation is 15 feet and the change in elevation is −2.4 feet

per minute. What is the ant’s elevation after 6 minutes?

Module 5 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 5 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To get to her music lesson, Natasha pays $0.25 in bus fare.

After her lesson, she buys a snack for $2.12 and pays

another $0.25 in bus fare. She has four music lessons a

week. Write and evaluate an expression showing her weekly

costs for transportation and snacks.

Module 5 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 5 Lesson 7 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lara is planting seedlings in small flower pots. She buys a

bag of soil that costs $4.85 and contains 16.5 cups of soil.

Each seedling requires $1\frac{1}{4}$ cups of soil. What is the cost of the soil for each seedling to the nearest cent?

Module 5 Lesson 7 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 6 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One person calls 3 people. The next day, those people each

call 3 people. The third day, those people each call 3 people.

Write an expression using exponents for the number of calls

made on the third day.

Module 6 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 6 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluate the expression.

6 + 2 (3 − 1) + 52 (1 − 1)

Module 6 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Evaluate the expression.

6 + 2 (3 − 1) + 52 (1 − 1)

Module 6 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Anthony uses a large and a small truck to transport boxes to

his new house. The smaller truck can carry half the number

of boxes plus 1 that the larger truck can carry. If the larger

truck can carry *x* boxes, write an expression for the number

of boxes the smaller truck can carry.

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Module 6 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adinah and her father planted a maple tree. The expression

3.1*a* + 5.2 can be used to find the height of the tree, in feet,

after *a* years. How tall is the tree when *a* = 9?

Module 6 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 6 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A temperature change can be represented by the

expression –0.5(1 – 2*h*). Chase says that the temperature

change can also be represented by 4(2*h* + 2) – 7*h* – 8.5.

Is Chase correct? Are both expressions equivalent? Explain.

Module 6 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Is Chase correct? Are both expressions equivalent? Explain.

Module 6 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The base of an isosceles triangle is represented by the

expression 3*x* – 1. Each of the legs of the isosceles triangle

are twice the base. Write an expression for the perimeter of

the triangle listing each side. Simplify the expression.

Module 6 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mai bought *n* tickets for $12 each. She spent $84. Write an

equation for this situation. How many tickets did Mai buy?

Module 7 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

During the evening, the temperature drops 12 °F to become

37 °F. What was the temperature at the beginning of the

evening? Write an equation, show how to solve the equation, and state the solution.

Module 7 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In the weeks after a chick hatches, its mass increases by a

factor of 2.5 to become 180 grams. What is the chick’s mass

at hatching? Write and solve an equation to show the answer.

Module 7 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Kiernan Drugstore charges customers 40 cents to print a

photograph. Regina spends $4.80 to print photographs at

this store. How many photographs did she print? Write and

solve an equation to find the answer.

Module 7 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A regular polyhedron is a solid figure with faces that are all

the same shape and size. The faces of a regular polyhedron

must have at least three but no more than five sides. Write

an inequality that expresses *n*, the number of sides that the

faces of a regular polyhedron may have.

Module 7 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 7 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The product of –5 and *x* is equal to 12.5. What is the value

of *x*? Write and solve an equation

Module 7 Lesson 6 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 8 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you can use an equation to complete a table of

values and graph the relationship.

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Module 8 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you can use an equation to complete a table of

values and graph the relationship.

Module 8 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Yolanda has a glass that holds $\frac{2}{3}$ cup of liquid. She fills it with water *t* times to water all of the plants in her office. She

needs *c* cups of water to water the plants.

Write an equation and find the number of times she needs to fill the glass if the plants need 6 cups of water.

Module 8 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 8 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

William measured his plant over the course of five weeks. At

the end of Week 1, the plant measured 5.5 cm, and at the

end of Week 2, the plant measured 6.5 cm. At the end of

Week 3, the plant measured 7.5 cm, and at the end of Week

4, the plant measured 8.5 cm. The plant continues to grow

at the same rate each week. Write an equation that models

the plant’s height, *h*, in centimeters, after *n* weeks.

Module 8 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 9 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Imelda buys a package that contains 12 red balloons

and 15 white balloons. Identify a part-to-whole ratio, a

whole-to-part ratio, and a part-to-part ratio that describe

the balloons in the package.

Module 9 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 9 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A train travels at a constant speed. After 3 hours, it has

traveled 54 miles. What is the unit rate of the train in miles

per hour? Construct a table to show how far the train
traveled after 1 hour and 2 hours, and how far it will travel after 4 hours.

Module 9 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 9 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Al sells a subscription of 5 issues of a magazine for $15. LaToya sells a subscription of 8 issues of the same magazine for $21.

Does Al or LaToya offer the less expensive unit rate for the

magazine? Explain.

Module 9 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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magazine? Explain.

Module 9 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Al sells a subscription of 5 issues of a magazine for $15. LaToya sells a subscription of 8 issues of the same magazine for $21.

Does Al or LaToya offer the less expensive unit rate for the

magazine? Explain.

Module 9 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Al sells a subscription of 5 issues of a magazine for $15. LaToya sells a subscription of 8 issues of the same magazine for $21.

Does Al or LaToya offer the less expensive unit rate for the

magazine? Explain.

Module 9 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tom drained 2 tanks of water. The number of gallons in

each tank and the time it took each tank to drain are shown

in the table.



Which tank drained at a faster rate? Explain.

Module 9 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tom drained 2 tanks of water. The number of gallons in

each tank and the time it took each tank to drain are shown

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Module 9 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Which tank drained at a faster rate? Explain.

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each tank and the time it took each tank to drain are shown

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Which tank drained at a faster rate? Explain.

Module 9 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A warehouse uses large trucks to ship goods to stores.

A fleet of 3 trucks can empty 2 storage sections in the

warehouse. If 18 trucks are needed to completely empty the

warehouse, how many storage sections are there in the

warehouse?

Module 9 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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A fleet of 3 trucks can empty 2 storage sections in the

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warehouse?

Module 10 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are 30 sixth graders, 40 seventh graders, and
20 eighth graders in the marching band. In a circle graph

showing the portion of band members in each grade, what

would the angle measure of the sixth-graders section be?

Module 10 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are 30 sixth graders, 40 seventh graders, and
20 eighth graders in the marching band. In a circle graph

showing the portion of band members in each grade, what

would the angle measure of the sixth-graders section be?

Module 10 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are 30 sixth graders, 40 seventh graders, and
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Module 10 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are 30 sixth graders, 40 seventh graders, and
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showing the portion of band members in each grade, what

would the angle measure of the sixth-graders section be?

Module 10 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A large rainwater collection barrel holds 400 gallons of

water. How many pints of water does the rain barrel hold?

Module 10 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A large rainwater collection barrel holds 400 gallons of

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Module 10 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A large rainwater collection barrel holds 400 gallons of

water. How many pints of water does the rain barrel hold?

Module 10 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Doctors recommend that people drink 64 fluid ounces of

water per day. How much water, in milliliters, do doctors

recommend people drink each day?

Module 10 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Doctors recommend that people drink 64 fluid ounces of

water per day. How much water, in milliliters, do doctors

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Module 10 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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water per day. How much water, in milliliters, do doctors

recommend people drink each day?

Module 11 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe a unit rate. Explain how you can use a unit rate to

complete a table.

Module 11 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe a unit rate. Explain how you can use a unit rate to

complete a table.

Module 11 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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complete a table.

Module 11 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe a unit rate. Explain how you can use a unit rate to

complete a table.

Module 11 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe a situation involving distance traveled and time.

Make a proportional table to support your scenario. Write

the equation for the scenario. Underline the constant of

proportionality in your equation.

Module 11 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Make a proportional table to support your scenario. Write

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Make a proportional table to support your scenario. Write

the equation for the scenario. Underline the constant of

proportionality in your equation.

Module 11 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parking for 4 hours costs $10. Parking for 5 hours costs $12.

Is this a proportional relationship, and if so, what is the

constant of proportionality?

Module 11 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parking for 4 hours costs $10. Parking for 5 hours costs $12.

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constant of proportionality?

Module 11 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Donnie earns extra money as a lifeguard. He earns $52.50

for 5 hours. Identify the constant of proportionality, and

write an equation for the proportional relationship.

Module 11 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Donnie earns extra money as a lifeguard. He earns $52.50

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Module 12 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jimmy and Amanda are on the archery team. Jimmy hits 3

bull’s-eyes in every 20 shots. Amanda hits a bull’s-eye on

18% of her shots. Who hits bull’s-eyes more often? Explain.

Module 12 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jimmy and Amanda are on the archery team. Jimmy hits 3

bull’s-eyes in every 20 shots. Amanda hits a bull’s-eye on

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Module 12 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 12 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ella wants to buy a new sweater that costs $32. Her parents

promise to pay 20% of the cost, while Ella must pay the rest.

How much money will her parents pay and how much must

Ella pay?

Module 12 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 12 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Maria lives in a large city where she walks to and from

school. On Friday, she walks 18 city blocks, which is 20% of

the total number of city blocks that she walks during the

week. How many city blocks does she walk during the week?

Module 12 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 13 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A movie theater currently seats 400 people. After a

renovation, the movie theater will have larger seats, so it

will be able to seat only 320 people. What is the percent

decrease in the number of seats?

Module 13 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 13 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A store sells boxes of detergent at a regular price of $4.55.

Next week, the detergent will be on sale at a 20% discount.

What will be the sale price?

Module 13 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Next week, the detergent will be on sale at a 20% discount.

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Module 13 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A lawnmower costs $122.50. The sales tax is 8%. Write an

equation of the form *y* = *kx* and use it to find the amount of

tax on the lawnmower.

Module 13 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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equation of the form *y* = *kx* and use it to find the amount of

tax on the lawnmower.

Module 13 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Liling is a salesperson at a computer store. She receives a

base salary of $2,300 per month and she receives a

commission of 3% on her sales. She also receives a fee of $8

for each extended warranty she sells. This month her sales

total is $44,000, and she sells 41 extended warranties. What

is her salary this month?

Module 13 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 13 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jackson deposits $4,200 in a savings account that pays 3.5%

annual interest. What is the total value of the account after

10 years?

Module 13 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Jackson deposits $4,200 in a savings account that pays 3.5%

annual interest. What is the total value of the account after

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Jackson deposits $4,200 in a savings account that pays 3.5%

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Module14 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Julie has put a map of the United States on a coordinate

grid. Phoenix is at approximately (–2.4, –4.2) and Atlanta is

at approximately (2.9, –4.2). If each unit on the grid

represents 300 miles, what is the approximate distance

between Phoenix and Atlanta?

Module14 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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grid. Phoenix is at approximately (–2.4, –4.2) and Atlanta is

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Module14 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module14 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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represents 300 miles, what is the approximate distance

between Phoenix and Atlanta?

Module 14 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classify Figure *PQRS* with coordinates P(3, 7), Q(–1, 7),
R(3, –1), S(–1, –1) using as many terms as possible.

Module 14 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classify Figure *PQRS* with coordinates P(3, 7), Q(–1, 7),
R(3, –1), S(–1, –1) using as many terms as possible.

Module 14 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classify Figure *PQRS* with coordinates P(3, 7), Q(–1, 7),
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Module 14 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classify Figure *PQRS* with coordinates P(3, 7), Q(–1, 7),
R(3, –1), S(–1, –1) using as many terms as possible.

Module 14 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

On a coordinate grid, 1 square unit equals $\frac{1}{4}$ square mile.

A rectangular walking path has vertices at (–4, 5), (1, 5),

(–4, –5), and (1, –5). How long is the walking path?

Module 14 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

On a coordinate grid, 1 square unit equals $\frac{1}{4}$ square mile.

A rectangular walking path has vertices at (–4, 5), (1, 5),

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(–4, –5), and (1, –5). How long is the walking path?

Module 15 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sue draws a parallelogram of base length 2 inches and

height 32 inches. Daniel draws a square that has the same

area as Sue’s parallelogram. What is the side length of

Daniel’s square?

Module 15 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sue draws a parallelogram of base length 2 inches and

height 32 inches. Daniel draws a square that has the same

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Module 15 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 15 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 15 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the area of the triangle.



Module 15 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 15 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 15 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the area of the triangle.



Module 15 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Thomas prepares a rectangular-shaped cake of width

5 inches and length 12 inches. While the cake is cooling, a

mouse steals a section from one corner of the cake. The

stolen section has the shape of a right triangle, with each

leg length equal to 1 inch. What is the area of the cake that

remains?

Module 15 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Thomas prepares a rectangular-shaped cake of width

5 inches and length 12 inches. While the cake is cooling, a

mouse steals a section from one corner of the cake. The

stolen section has the shape of a right triangle, with each

leg length equal to 1 inch. What is the area of the cake that

remains?

Module 15 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 15 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 16 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A sealed cardboard box has the shape of a rectangular

prism. The box has a width of 12 inches, a length

of 12 inches, and a height of 10 inches. Describe the

shapes that make up the net for the box. Then calculate the

surface area.

Module 16 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 16 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

An aquarium is in the shape of a rectangular prism. It has a

length of 18 inches, a width of 10 inches, and a height of

12 inches. After 200 cubic inches of gravel are placed on the

floor of the aquarium, how much water can the aquarium

hold?

Module 16 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 16 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The state aquarium orders a new tank in the shape of a

rectangular prism that will hold 764.4 cubic feet of water.

The builder of the tank wants to use a glass wall that

measures 13 feet long by 10.5 feet tall.

What must the width of the tank be?

Module 16 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What must the width of the tank be?

Module 17 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Howard just completed the crossword puzzle in the daily

newspaper. Describe one non-statistical question and one

statistical question that he could ask about the puzzle.

Module 17 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 17 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The number known as pi is defined as the ratio between the

circumference and diameter of any circle. The first twenty

digits of pi are shown below. (Spaces are added for clarity.)

3.14 159 265 358 979 323 84

Construct a dot plot to show the frequency of the digits.

Module 17 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Construct a dot plot to show the frequency of the digits.

Module 17 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

These data show the numbers of students at Lincoln

Elementary School who were absent for each of the last 15

school days.

9, 10, 2, 12, 11, 5, 15, 19, 10, 6, 8, 4, 4, 6, 8

Make a frequency table and histogram of these data.

Module 17 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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9, 10, 2, 12, 11, 5, 15, 19, 10, 6, 8, 4, 4, 6, 8

Make a frequency table and histogram of these data.

Module 17 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review On My Own Problem 3, in which Eric recorded the

temperature for 10 days. Suppose that Eric recorded

temperatures for the next two days, which were 1 °F and

27 °F. How do the new values change the three measures of

center?



Module 17 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review On My Own Problem 3, in which Eric recorded the

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27 °F. How do the new values change the three measures of

center?



Module 17 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Look again at Problem 4 in On Your Own. Add two additional circumference measurements to the data set, both of which are 17 inches. Then find the new answers to Parts B to E.

4. The circumference of a pumpkin is the distance

around it. The following are circumferences (in inches) of some pumpkins growing in a pumpkin patch:

16, 12, 14, 17, 15, 9, 8, 5.

B. What is the mean of the data?

C. What is the median of the data?

D. What is the mode of the data?

E. Which measure of center best represents this data? Explain.

Module 17 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 18 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following dot plot, describe any clusters, gaps, and peaks, decide whether the dot plot displays symmetry, and find the mode.



Module 18 Lesson 1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following dot plot, describe any clusters, gaps, and peaks, decide whether the dot plot displays symmetry, and find the mode.



Module 18 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Draw a box plot for the data set.

10, 16, 12, 13, 15, 18, 20, 11

Module 18 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 18 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Module 18 Lesson 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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10, 16, 12, 13, 15, 18, 20, 11

Module 18 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which points of the following data set do not fall within the

mean absolute deviation?

2.5, 3.9, 3.1, 3.7, 3.6, 1.4, 4.3, 3.2, 2.8, 3.0

Module 18 Lesson 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2.5, 3.9, 3.1, 3.7, 3.6, 1.4, 4.3, 3.2, 2.8, 3.0

Module 18 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the range, MAD, and IQR of the given data set? What do these measures of variability tell you about the
data set?

10, 15, 20, 17, 16, 14, 16, 16, 15, 18

Module 18 Lesson 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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10, 15, 20, 17, 16, 14, 16, 16, 15, 18

Module 18 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The table below shows the number of hours worked each

week by various people at part-time jobs.



What is a possible statistical question that could have been

asked? What display might be used to display the data?

What features might you use to draw conclusions about the

data?

Module 18 Lesson 5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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