Name: Key Date: 7/13

Teacher info only:		
	score	possible
Part A		44
Part B		3
Total		47

Grade 5 CCSS Edition- Unit 4
Division
Pretest/Review/Reassessment

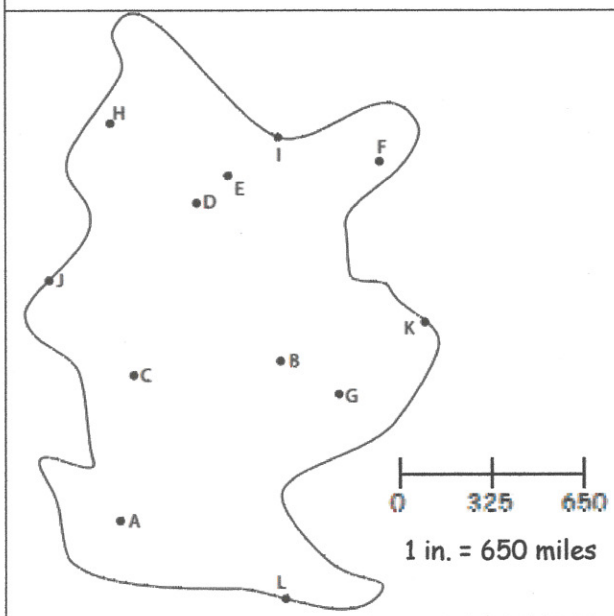
*** Copy: double-sided. Students will need templates. Some may need extra grid paper.

Part A – I am expected to demonstrate a proficient understanding of these learning targets.

4a. I can use map scales to estimate distances.

1. Use the measurements on the map to complete the table. **(Use your template to measure to the nearest half-inch.)**

Map of Amoeba Island



	From:	To:	Map Distance:	Real Distance:
	C	D	1 in.	750 miles
a.	I	L	2.5 in.	1,625 miles
b.	J	K	2 in.	1300 miles (6)
c.	C	K	1.5 in.	975 miles

If two points are really 5525 miles apart, what would be the map distance according to this scale?

Ex:

answer: 8.5 inches (unit)

Explain your thinking: 2" = 1300 mi. 4" = 2600 6" = 3900 8" = 5200
8" = 5200 + ½ in (325) = 5525 mi.

/6

4b. I can divide a 2, 3, or 4 digit whole number by up to a 2-digit divisor, generate an answer in the form of a whole number or mixed number, and check my calculation using multiplication.

2. Solve the division problems. **Write your quotient as a mixed number.** (3)

a. 165 ÷ 7

b. 165 ÷ 7= $23\frac{4}{7}$

b. 771/8

771/8 = $96\frac{3}{8}$

c. 840 chairs. 35 rows.

24 chairs per row

Look at problem 2c. above: 840 ÷ 35 = 24 because 24 * 35 = 840. (1)

Show your work.

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3. Solve the following problems on the grid paper below. **Write your quotient as a mixed number.**

a. 225 ÷ 23 = $9\frac{18}{23}$ b. 8,633 ÷ 32 = $269\frac{25}{32}$ (2)

/2

4c. I can write an open number sentence using a variable to match a division number story and solve.

4. Write an open number sentence using a variable. **Show your work below.**

Kris is packaging doughnuts. She puts 6 doughnuts in each box. If she has 204 doughnuts, how many boxes will she need?

Open Number Sentence: $204 \div 6 = b$ Answer 34 boxes (unit) (2)

Eight (8) friends share a jackpot prize of $3624. How much money does each person get?

Open Number Sentence: $3624 \div 8 = m$ Answer $453 (unit) (2)

Phil has 1728 inches of ribbon. He needs pieces that are 1 yard long to make bows. If there are 36 inches in each yard, how many bows can he make?

Open Number Sentence: $1728 \div 36 = b$ Answer 48 bows (unit) (2)

/6

4d. I can solve division number stories and interpret the remainder.

5. Paul has 48 vegetable plants to plant in his garden. Each row can only hold 6, plants . If there are 7 rows in his garden, does he have enough room?

Circle: Yes (No) Explain why: (1)

Ex: Paul's thinking is not correct because $7 * 6 = 42$ and he has 48 plants so he does not have room for 6 plants. (1)

6. A tank of 2,345 fish is being emptied. All the fish are being separated into fishbowls. If each fishbowl holds 6 fish, what is the fewest number of fishbowls needed to keep all the fish alive?

a) Write a number model to represent the problem. $2,345 \div 6 = b$ (1)

b) Solve the problem on grid paper (next page).

c) Write the quotient with a remainder. 390 R5 (1)

d) What does the remainder represent?

5 fish that need a fish bowl (1)

e) Do you need to ignore the remainder, report it as a fraction or decimal, or round the answer up?

round up (1)

f) How many fishbowls are needed? 391 fish bowls (1)

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Information: 2,345 fish are being separated into fishbowls.
Each fishbowl holds 6 fish.

Check your work!

0/0

4e. I can estimate the quotient of a division problem with a whole number divisor and dividend written to the hundredths place, solve, and explain my reasoning.

7. Find a magnitude estimate.

Ex:

$354.24 divided in to 12 equal payments

360 ÷ 12 = 30

0.1s	1s	10s	100s

(10s) 2

Ex: 820.8 ÷ 8

800 ÷ 8 = 100

0.1s	1s	10s	100s

(100s) 2

Ex: 495.75 ÷ 25

500 ÷ 25 = 20

0.1s	1s	10s	100s

(10s) 2

Ex: 1.12 ÷ 4

1 ÷ 4 = 0.25

0.1s	1s	10s	100s

(0.1s) 2

Explain why your estimate for 1.18 ÷ 2 makes sense using numbers, words, tables, or a visual.

Ex:

1.12 is close to 1. I thought that $1 is 4 quarters or $\frac{25}{100} = 0.25$ 1

/9

8. Circle your previous magnitude estimate from the question before. Then solve on the grid paper. **Write your quotient as a decimal. Check to see if your answer makes sense.**

354.24 ÷ 12	0.1s | 1s | **10s** | 100s	354.24 ÷ 12 = 29.52 (1)
820.8 ÷ 8	0.1s | 1s | 10s | **100s**	820.8 ÷ 8= 102.6 (1)
495.75 ÷ 25	0.1s | 1s | **10s** | 100s	495.75 ÷ 25= 19.83 (1)
1.12 ÷ 4	**0.1s** | 1s | 10s | 100s	1.12 ÷ 4= 0.28 (1)

/4

4f. I can use basic facts knowledge to solve extended multiplication facts.

9. Fill in the blank to make a true number sentence.

$400 * 8 =$ 3,200	50 $* 6 = 300$	(2)
9 hours * 60 min per hour = 540 min.	$72{,}000 = 80 *$ 900	(2)
16,000 lbs = 8 lbs. * 2000 lbs. per ton	$350{,}000 = 500 *$ 700	(2)

Part A: ___/44 /6

Part B - I am continuing to develop a proficient understanding of these skills.

10. Find the value of n, then solve the equation.

If n = the number of feet in a yard, then $n^2 =$ 9. (1)

If $n = 81 \div 9$, then $24 - n =$ 15. (1)

If n = number of months in a year, then $n \div 6 =$ 2. (1)

Part B: ___/3 /3