Summer Assignment: 5th Grade Mathematics Packet (for Rising 6th Grade)

Name: _____ DUE: _____

This summer packet is for students completing the 5th grade. This is a requirement and will be graded at the beginning of the next school year. An answer key has been emailed to your families so you can check your answers. In order for you to receive full credit, use the following checklist:

Checklist:

Did you read the instructions carefully? _____

Have you answered all the questions completely? _____

Did you show your work? _____

Did you label all units? _____

Did you check your work? _____

Did you check the spelling of words that are given to you in the packet? _____

Did you reread your explanations to yourself to make sure they make sense? _____

Grading:

Criteria	Points Possible	Points Earned
Attention to detail and neatness: name and date written, checklist used, spelling checked, etc.	20	
Thorough completion: all problems complete with work shown	20	
Punctuality	10	
TOTAL	50	

Have a safe and happy summer!

The Fifth-Grade Team

This is a suggested time-management checklist to help pace yourself over the summer. You can adjust the checklist as you see fit based on your summer schedule.

Month	Date	Specific Lesson	Check when completed
June	6/12 - 6/16	Lesson 1: Place Value Lesson 2: Rounding and Estimating	
	6/19 - 6/23	Lesson 3: Multiplication Lesson 4: Multiplication	
	6/26 - 6/30	Lesson 5: Division Lesson 6: Division	
July	7/3 - 7/7	Lesson 7: Division Lesson 8: Order of Operations	
	7/10 - 7/14	Lesson 9: Decimals Lesson 10: Decimal Operations	
	7/17 - 7/21	Lesson 11: Adding/Subtracting Fractions Lesson 12: Multiplying Fractions	
	7/24 - 7/28	Lesson 13: Multiplying Fractions Lesson 14: Algebra	
August	7/31 - 8/4	Lesson 15: Cumulative Review	
	8/7 - 8/11	Catch up	
	8/14 - 8/18	Catch up	
	8/21 - 8/25	Catch up	

Lesson #1: Place Value

Fill in the table headings. Write *Tens*, *Hundreds*, *Ten Thousands*, or *Hundred Thousands*. Then write the number in word form and in standard form.

1.

		Thousands			**Ones**
○○ ○	○○○ ○○	○○○ ○○○	○○ ○○		○

a. The number in word form is

_____

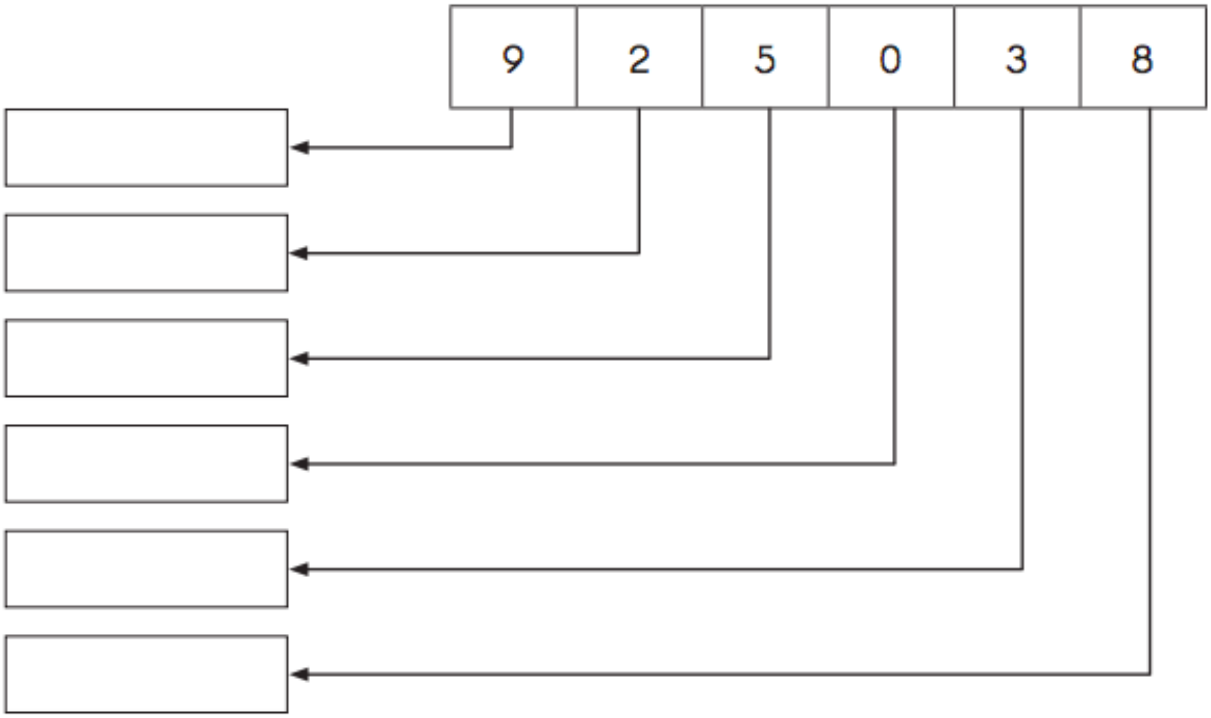
_____.

b. The number in standard form is _____.

Write each number in standard form.

2.	Twenty-eight thousand, one hundred ninety-nine	
3.	Ninety thousand, thirty-eight	
4.	Four hundred twelve thousand, six hundred three	
5.	Eight hundred thousand, five	
6.	Five hundred seven thousand, seven hundred	
7.	Six hundred thousand, six hundred	

8. Write the value of the digit in the correct box.



9. Fill in the blanks.

314,562 = 300,000 + _____ + 4,000 + 500 + 60 + 2

790,258 = _____ + 90,000 + 200 + 50 + 8

804,576 = 800,000 + _____ + 500 + 70 + 6

200,000 + 4,000 + 800 + 90 + 1 = _____

500,000 + 70,000 + 30 = _____

300,000 + 6,000 + 10 = _____

10. Arrange the numbers from least to greatest.

283,500 2,583,000 2,385,000 197,500 1,795,000

_____

Lesson #2: Rounding and Estimating

Round to the nearest thousand.

1. 3,687 _____

2. 28,480 _____

3. 725,390 _____

4. 299,710 _____

Round each number to the nearest thousand. Then estimate the sum or difference.

5. 9,867 + 4,655

6. 9,978 − 2,361

Estimate with front-end estimation.

7. 5,974 + 6,459

8. 3,999 − 2,499

Round each 4-digit number to the nearest thousand. Then estimate each product.

9. 7,390 × 8

10. 8,589 × 9

Problem Solving

11. On Saturday, 2,832 tourists visited the zoo. On Friday, 1,475 tourists visited the zoo. Estimate the number of tourists who visited the zoo on the two days by first rounding the numbers to the nearest thousand.

12. A fireworks festival attracted a total of 4,342 visitors from Sunday to Thursday. The number of visitors who went to the festival was about the same every day. Estimate the number of visitors who went to the festival on Friday.

13. The selling price of a digital camera was $1,699. Kumar sold 4 such cameras. Estimate his total sales by first rounding the price of each camera to the nearest thousand dollars.

Lesson #3: Multiplication

1. $38 \times 10 =$ _____

2. $746 \times 10 =$ _____

3. $624 \times 10 =$ _____

4. $857 \times 10 =$ _____

5. $758 \times 10 =$ _____

6. $680 \times 10 =$ _____

Find the missing factors.

7. $681 \times$ _____ $= 6{,}810$

8. _____ $\times 10 = 1{,}900$

9. $453 \times$ _____ $= 4{,}530$

10. $1{,}905 \times$ _____ $= 19{,}050$

11. _____ $\times 10 = 64{,}000$

12. _____ $\times 10 = 808{,}000$

13. 38×40

14. 490×30

15.

$47 \times 100 =$ _____

$168 \times 100 =$ _____

$192 \times 1{,}000 =$ _____

Multiply by Powers of 10.

16. $95 \times 10^2 =$

17. $86 \times 10^3 =$

18. $453 \times 10^3 =$

19.

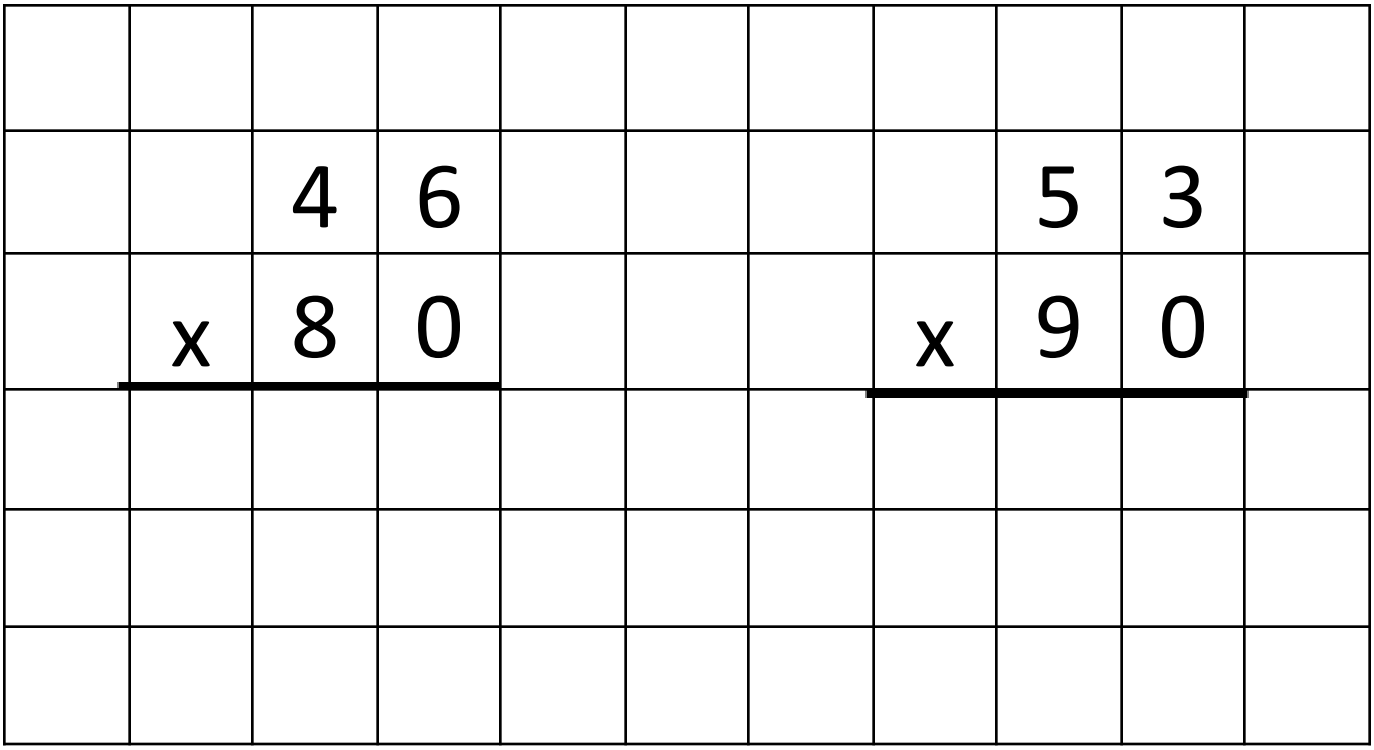
$248 \times 3 =$ _____

$248 \times 30 =$ _____

Lesson #4: Multiplication (continued)

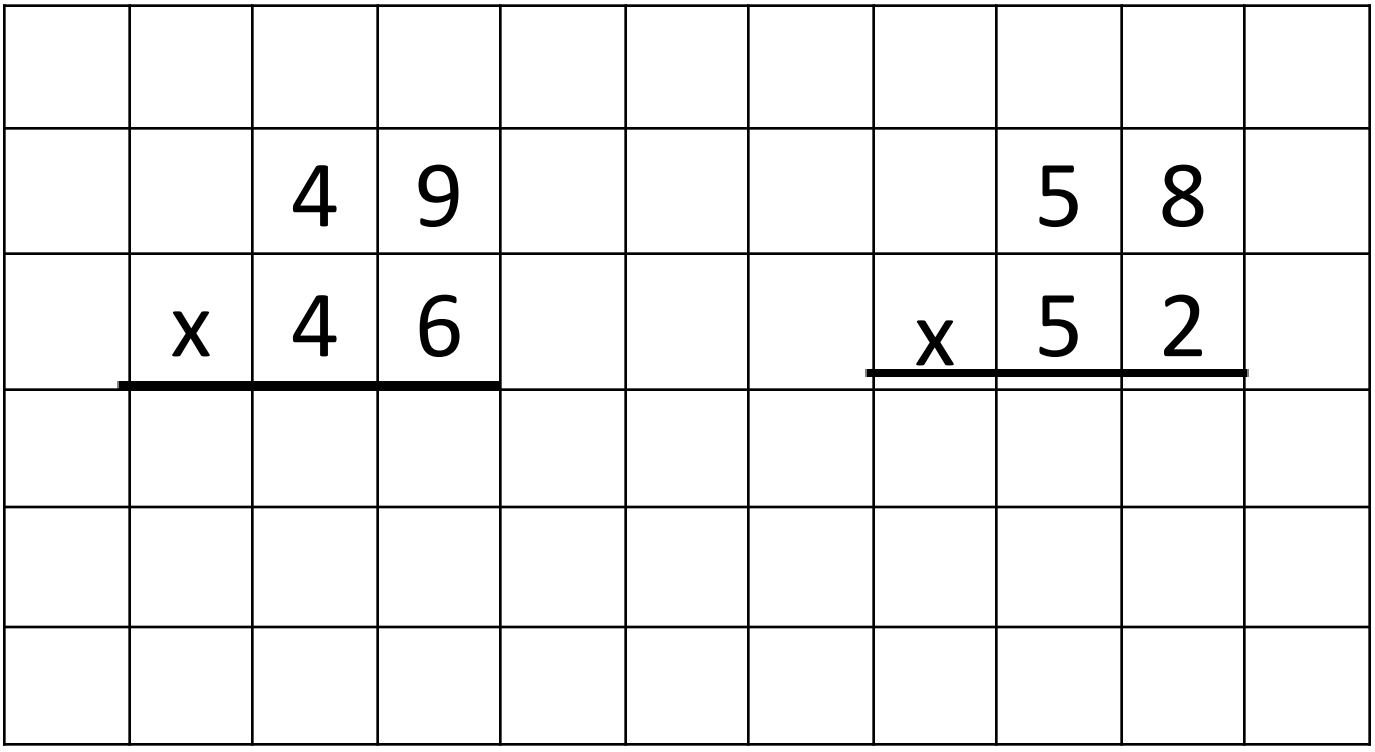
1. 46 × 80

2. 53 × 90



3. 49 × 46

4. 58 × 52



5. 763×40

6. 370×60

7. Mrs. Brandon had 230 soft toys. Each toy was sold for $20. How much money did she earn after selling the soft toys?

Lesson #5: Division

Divide.

1. 7,200 ÷ 10 = _____ **2.** 2,800 ÷ 10 = _____

3. 23,000 ÷ 10 = _____ **4.** 680,000 ÷ 10 = _____

Fill in the blanks.

5. 2,320 ÷ 10 = _____

6. _____ ÷ 10 = 160

7. 24,000 ÷ _____ = 2,400

8. 84,000 ÷ _____ = 8,400

9. _____ ÷ 10 = 398

10. _____ ÷ 10 = 5,500

11. Divide.

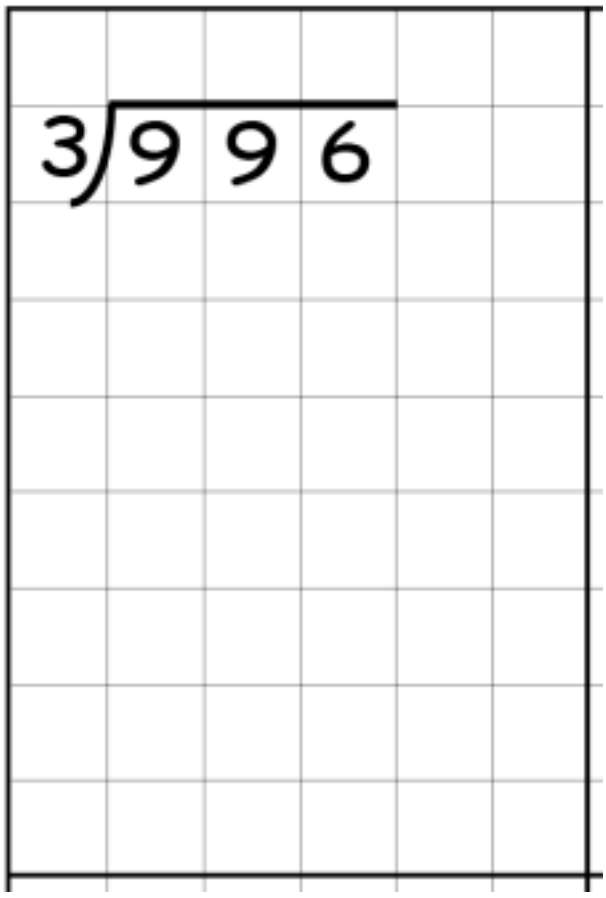
4,800 ÷ 100 = _____

35,700 ÷ 100 = _____

79,000 ÷ 1,000 = _____

350,000 ÷ 1,000 = _____

12.



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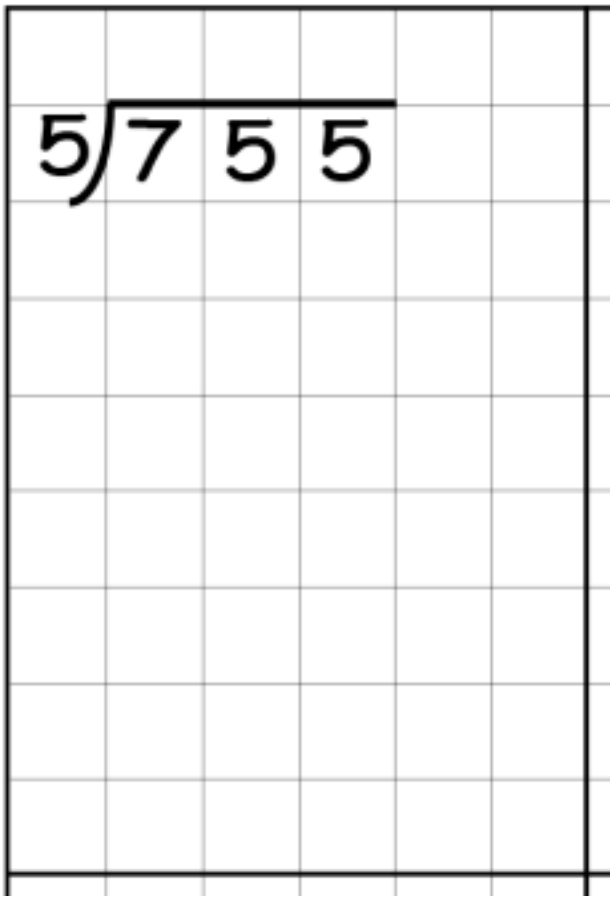
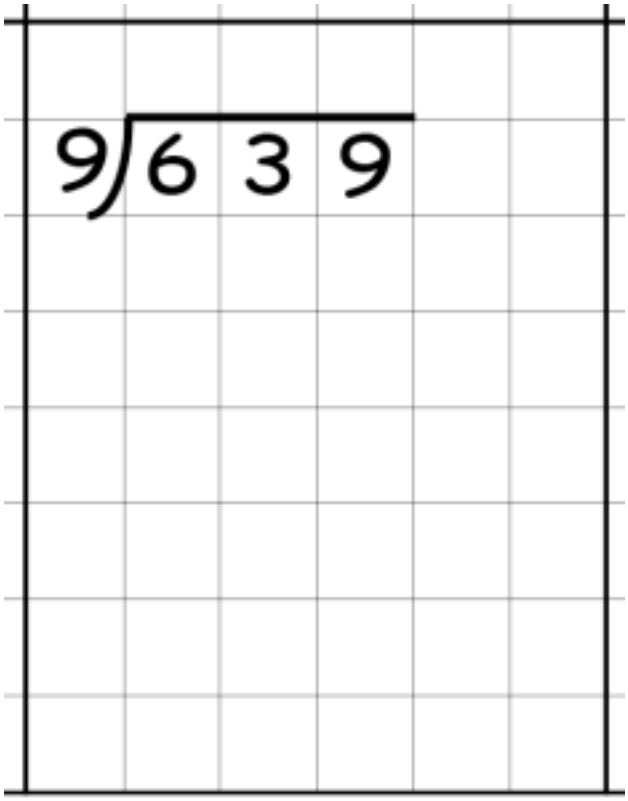
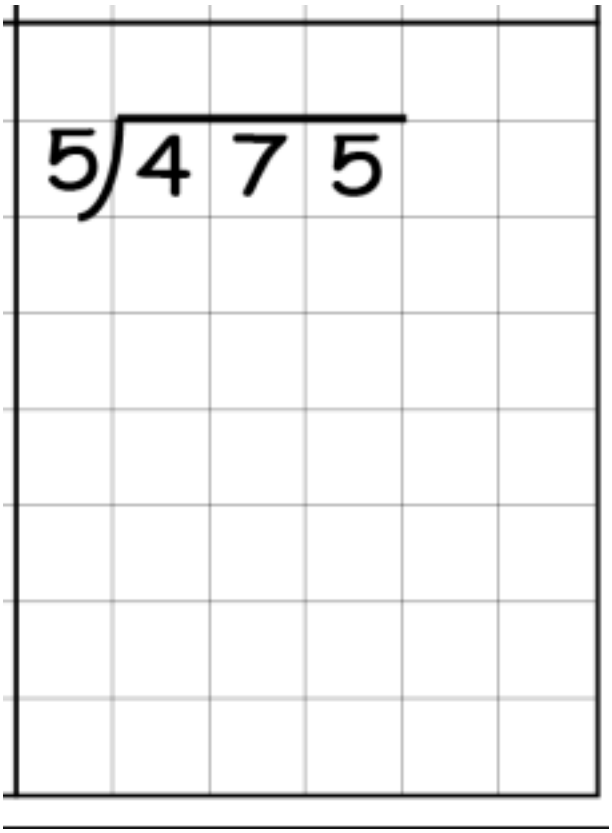


Lesson #6: Division

1.



2.



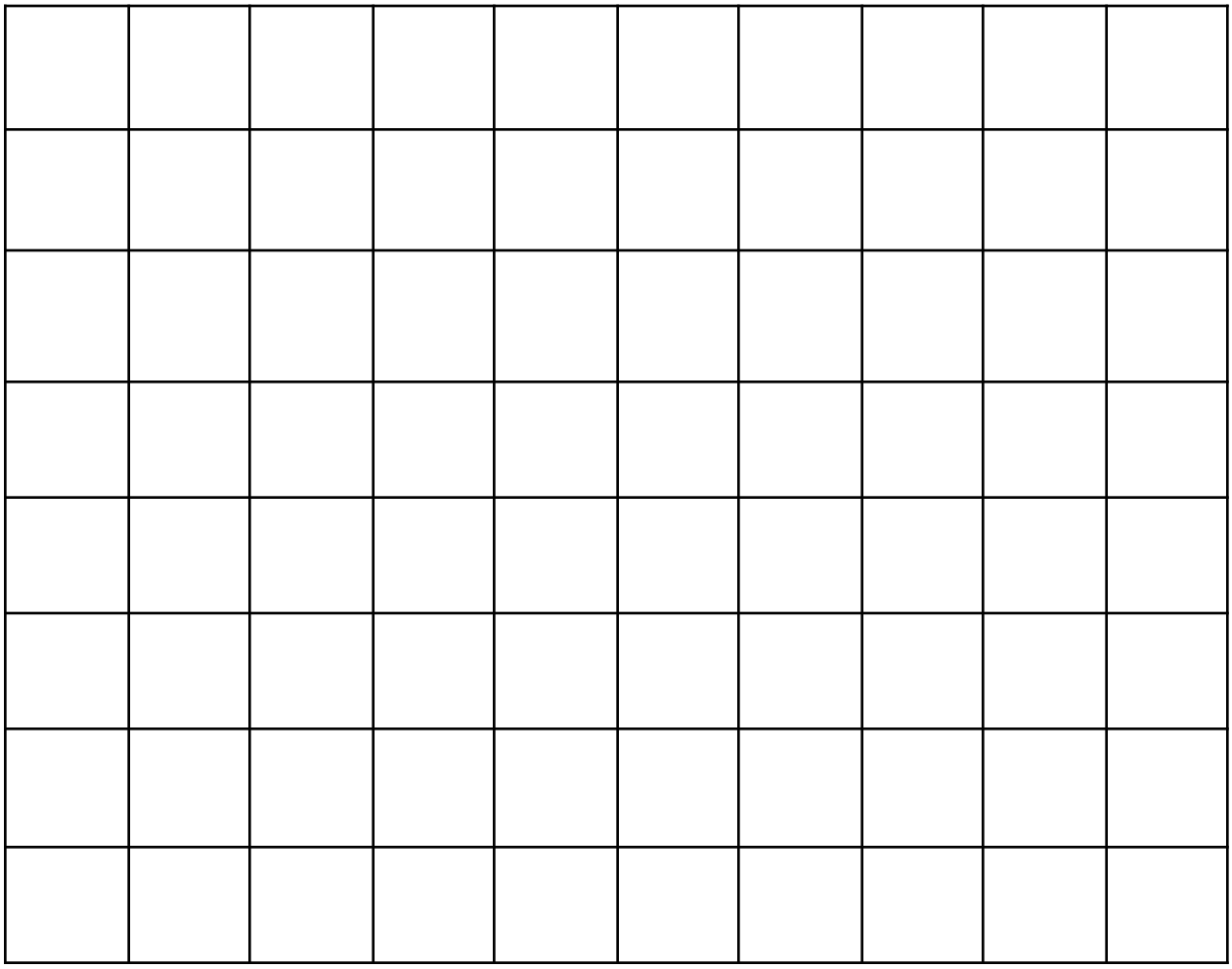
3. $4\overline{)3,620}$

4. $6\overline{)1,842}$

Lesson #7: Division

5. $80 \div 20$

6. $100 \div 18$



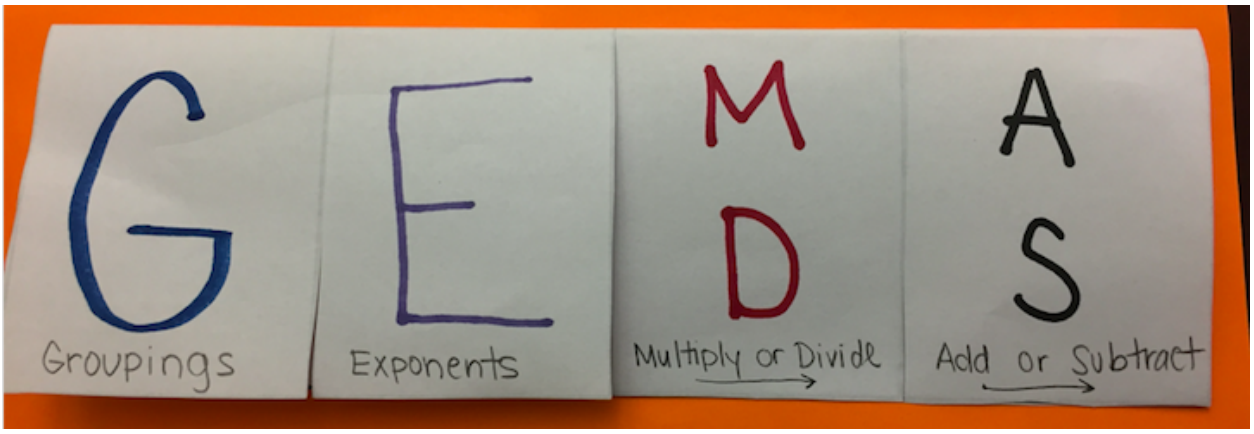
7.

$831 \div 45$

8.

$3{,}250 \div 50$

Lesson #8: Order of Operations



1. $60 - 20 + 70 =$ _____

2. $200 \div 5 \times 7 =$ _____

3. $100 - 135 \div 3 + 27 =$ _____

4.

$$148 + 52 - 98$$

5.

$$36 \times 8 \div 9$$

6.

$$4 \times (18 + 32) \div 10$$

Lesson #9: Decimals

Write the decimal shown in each place-value chart.

1.

Ones	Tenths	Hundredths	Thousandths
○ ○		○ ○ ○ ○	○ ○ ○ ○ ○

_____

2.

Ones	Tenths	Hundredths	Thousandths
○ ○ ○ ○ ○ ○	○ ○ ○		○ ○ ○ ○ ○ ○ ○ ○

_____

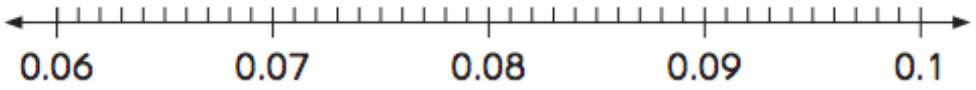
3.

Ones	Tenths	Hundredths	Thousandths
	○	○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○

_____

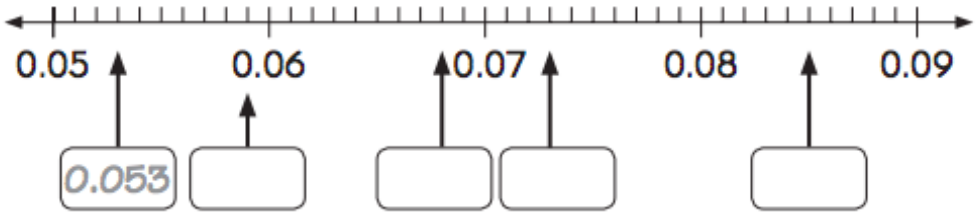
Mark an *X* to show where each decimal is located.

4. 0.063 **5.** 0.075 **6.** 0.082 **7.** 0.098



Write the decimal shown by each arrow.

8.



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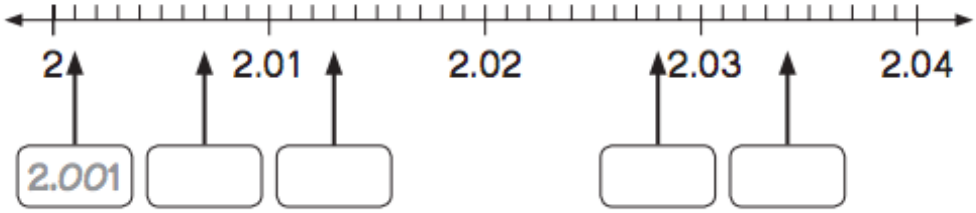

Write each fraction or improper fraction as a decimal.

10.

$\frac{5}{1000} =$ _____

$\frac{110}{1000} =$ _____

$\frac{2508}{1000} =$ _____

$\frac{3009}{1000} =$ _____

Lesson #10: Decimal Operations

Adding and Subtracting Decimals

0.39 + 0.05	0.8 + 0.39	0.87 + 0.48
0.08 - 0.04	0.84 - 0.46	0.51 - 0.29
25.624 + 23.341	27.8 - 13.6	17.34 - 3.545

9.459 – 6.48 = _____ 19.42 – 2.579 = _____

28.72 + 6.8 = _____ 6.9 + 3.08 + 1.247 = __

Problem Solving:

1. Rainfall for two days was measured as 0.24 in. and 0.39 in. at the city airport. What was the total rainfall measured over the two days?

Multiplying and Dividing Decimals

1. $0.9 \times 4 =$ _____

2. $1.5 \times 3 =$ _____

3. $0.08 \times 5 =$ _____

4. $0.27 \times 6 =$ _____

5.

$6 \times 5.64 =$ _____

Divide.

1. $2.36 \div 10 =$ _____

2. $30.15 \div 10 =$ _____

3. $508.2 \div 100 =$ _____

4. $210 \div 100 =$ _____

5. $780 \div 1{,}000 =$ _____

6. $82{,}300 \div 1{,}000 =$ _____

$4\overline{)9.2}$

$5\overline{)18.5}$

$9\overline{)0.54}$

$7\overline{)41.16}$

Lesson #11: Fractions

Add or Subtract: Simplify

1) $\frac{1}{2} - \frac{1}{2} =$

2) $\frac{4}{6} - \frac{2}{6} =$

3) $\frac{3}{6} - \frac{1}{6} =$

4) $\frac{9}{10} - \frac{1}{10} =$

5) $\frac{8}{10} - \frac{2}{4} =$

6) $\frac{4}{6} - \frac{1}{12} =$

7) $\frac{3}{6} + \frac{3}{8} =$

8) $\frac{10}{12} + \frac{1}{2} =$

9) $4\frac{3}{8} + 1\frac{7}{8} =$

10) $5\frac{7}{8} + 5\frac{4}{8} =$

11. $4\frac{3}{7} - 2\frac{1}{4}$

12. $5\frac{9}{10} - 4\frac{5}{11}$

Lesson #12: Multiplying Fractions

Solve each problem. Answer as a mixed fraction.

Ex) $\frac{2}{3} \times 8 = 5\frac{1}{3}$

1) $\frac{3}{5} \times 3 =$

2) $\frac{1}{5} \times 7 =$

3) $5 \times \frac{4}{6} =$

4) $\frac{5}{12} \times 8 =$

5) $3 \times \frac{5}{6} =$

6) $8 \times \frac{2}{6} =$

7) $\frac{6}{10} \times 3 =$

8) $\frac{4}{8} \times 6 =$

9) $4 \times \frac{2}{3} =$

10) $6 \times \frac{1}{5} =$

11) $2 \times \frac{1}{4} =$

Lesson #13: Multiplying Fractions

1. $\frac{3}{8} \times \frac{5}{2}$

2. $2\frac{3}{4} \times 8$

3. $\frac{5}{6}$ of $\frac{9}{11}$

4. $\frac{7}{10}$ of $\frac{5}{9}$

5. $\frac{7}{8} \times \frac{10}{14}$

6. $\frac{8}{9} \times \frac{9}{10}$

Lesson #14: Algebra

1. Add 8 to w

2. Subtract 10 from a

3. Sum of p and $\frac{3}{4}$

4. Subtract $6y$ from 5

5. Multiply 6 by g

6. Divide $3k$ by 2

7. 4 times as many as h

8. 12 less than $5s$

9. 8 more than $7b$

10. Divide $5d$ by 4

Evaluate each expression for $m = 4$.

11. $11 - m$

12. $m + 9$

Evaluate each expression for $k = 8$.

13. $3k + 7$

14. $12 + 6k$

15. $30 - 2k$

16. $7k - 19$

Solve each equation.

$4n = 28$

$3d + 5 = 17$

$10w - 18 = 42$

$42 + 6h = 84$

$7m - 35 = 5 + 2m$

$4k + 44 = 10k - 10$

Lesson #15 Cumulative Review

1. Which of the following is 3,450,026 in word form? *(Lesson 1.1)*

(A) Three million, four hundred fifty thousand, twenty-six

(B) Three million, four hundred thousand fifty, twenty-six

(C) Three million, fifty thousand four hundred, twenty-six

(D) Three million, forty-five thousand, twenty-six

2. Which number is greatest? *(Lesson 1.3)*

(A) 15,265

(B) 93,216

(C) 320,182

(D) 320,128

3. Which number when rounded to the nearest thousand is 23,000? *(Lesson 1.4)*

(A) 22,097

(B) 22,499

(C) 23,400

(D) 23,501

4. Simplify $20 + 10 \times 19 - 7$. *(Lesson 2.7)*

(A) 140

(B) 203

(C) 360

(D) 563

5. Multiply 52×10^2. *(Lesson 2.3)*

(A) 52 (B) 520

(C) 5,200 (D) 52,000

6. Which is the difference between the value of the digit 6 in 2,300,628 and in 846,150? *(Lesson 1.2)*

(A) 600 (B) 5,400

(C) 5,522 (D) 6,000

7. Which is the remainder when 4,885 is divided by 21? *(Lesson 2.6)*

(A) 12 (B) 13

(C) 14 (D) 15

8. Express $4 \div \frac{1}{12}$ in simplest form. *(Lesson 4.6)*

(A) 48 (B) 3

(C) $\frac{4}{12}$ (D) $\frac{1}{48}$

9. Find the difference: $\frac{3}{4} - \frac{3}{8}$. *(Lesson 3.2)*

(A) $\frac{5}{8}$ (B) $\frac{3}{8}$

(C) $\frac{1}{2}$ (D) $\frac{1}{4}$

10. Find the product: $\frac{3}{4} \times \frac{8}{12}$. *(Lesson 4.1)*

(A) $\frac{1}{2}$ (B) $\frac{2}{3}$

(C) $\frac{5}{12}$ (D) $\frac{11}{16}$