

Name: _____ Period: _____

Week 17 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE TUESDAY, DECEMBER 6, 2016

Unit 3, Chapter 5 - Ratio, Proportion, and Similar Figures

Use the grids provided to convert the units. **Show all work!** You will need a calculator. Round to two decimal places when necessary.

1) How many feet are in 12 meters?

Starting Value	Equal Amounts	Final Value

2) How many feet are in 60 inches?

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3) How many yards are in 45 feet?

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4) How many centimeters are in 500 millimeters?

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5) How many centimeters are in 10 inches?

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6) How many centimeters are in 12 meters?

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SCORE
/4

WEEK SCORE
/12

Stamp

Skills Review

Evaluate the following. Show all work.

6) $\frac{3}{5} + \frac{1}{6}$

7) $\frac{7}{9} - \frac{5}{12}$

For each problem below, compute the rate.

8) A secretary types a 1,200-word document in 10 minutes.

_____ words per minute

9) A carpentry shop manufactures 200 desks in an eight-hour workday.

_____ desks per hour

10) Terrell reads for 20 minutes. In that time, he reads 10 pages.

_____ pages per minute

11) A four-gram spoonful of sugar contains 16 calories.

_____ calories per gram of sugar

1 m = 3.28 ft.	1 ft. = 12 in.	1 yd. = 3 ft.
1 m = 100 cm	1 cm = 10 mm	1 in. = 2.54 cm

Name: _____

Period: _____

7th Grade Math Honors

SCORE
/4

Stamp

ASSIGNMENT DUE WED/THU, DECEMBER 7/8, 2016

Unit 3, Chapter 5 - Ratio, Proportion, and Similar Figures

Use the grids provided to convert the units. **Show all work!** You will need a calculator. Round all answers to two decimal places when necessary.

1) How many kilograms per liter in 30 pounds per gallon?

Starting Value	Equal Amounts	Equal Amounts	Final Value

2) If gasoline costs US\$3.50 per gallon, how much does it cost in Canadian dollars per liter?

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3) A heavy cable weighs 3 pounds per foot. What is that in kilograms per meter?

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4) A two-liter bottle of soda costs \$1.89 per bottle. How much does it cost per fluid ounce?

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5) A car drives at 40 miles per hour. What is that in meters per second?

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Skills Review

Evaluate the following. **Show all work!**

6) $\frac{1}{6} + \frac{3}{8} =$

7) $\frac{2}{5} + \frac{1}{3} =$

8) $\frac{3}{5} - \frac{1}{4} =$

9) $\frac{2}{9} + \frac{1}{6} =$

10) $\frac{3}{4} + \frac{5}{6} =$

11) $\frac{7}{10} + \frac{4}{15} =$

1 kg = 2.205 lb.	1 gal. = 3.79 L	1 US\$ = 1.34 Can\$
1 m = 3.28 ft.	1 gal. = 128 fl. oz.	1 mi. = 1609.3 m
1 day = 24 h.	1 hr. = 60 min.	1 min. = 60 sec.

ASSIGNMENT DUE FRIDAY, DECEMBER 9, 2016

Unit 3, Chapter 5 - Ratio, Proportion, and Similar Figures

For each relationship below, tell whether it is proportional or nonproportional. If it is proportional, write the common ratio.

1)

x	1	2	3	4	5	6
y	5	10	15	20	25	30

2)

x	8	12	20	28	32	40
y	10	15	25	35	40	50

3)

x	1	2	3	4	5	6
y	3	4	5	6	7	8

4)

x	3	4	5	6	7	8
y	-3	-4	-5	-6	-7	-8

5)

x	2	4	5	8	10	11
y	2	-4	5	-8	10	-11

6)

x	-3	-1	2	3	5	8
y	12	4	-8	-12	-20	-32

Each table below represents a proportional relationship. Fill in the blank with the number that belongs there.

7)

x	2	6	8	12	14	18
y	5		20	30	35	45

8)

x	-5	-2	0	3	4	7
y	-10	-4		6	8	14

9)

x	2	3	7		10	12
y	6	9	21	24	30	36

10)

x	3	4		11	12	15
y	-6	-8	-14	-22	-24	-30

11)

x	-5		-2	1	4	8
y	5	3	2	-1	-4	-8

12)

x	4	5	10	12	14	18
y	6		15	18	21	27

13)

x	4	8	16		24	32
y	3	6	12	15	18	24

14)

x	4	8		12	16	20
y	5	10	35	15	20	25

15)

x	2	6		8	12	14
y	7	21	35	28	42	49

16)

x	3		12	15	24	30
y	4	2	16	20	32	40