Aug 29-9:12 AM

Aug 29-9:12 AM

Multiplying Fractions

Aug 24-7:53 AM

Dividing Fractions

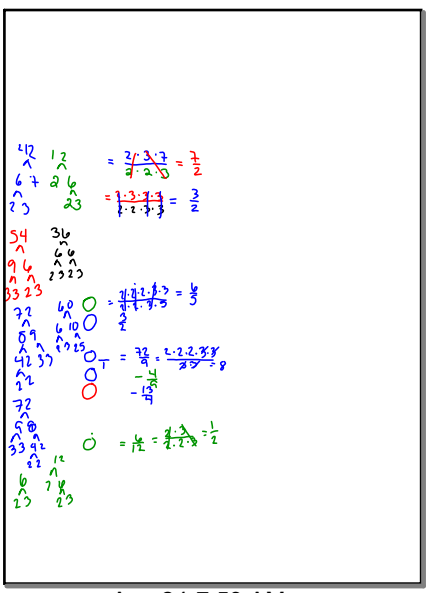
Adding Fractions

Aug 24-7:53 AM

Subtracting Fractions

Adding (or subtracting) fraction when the denominators are not equal = LCD!!!

Aug 24-7:53 AM



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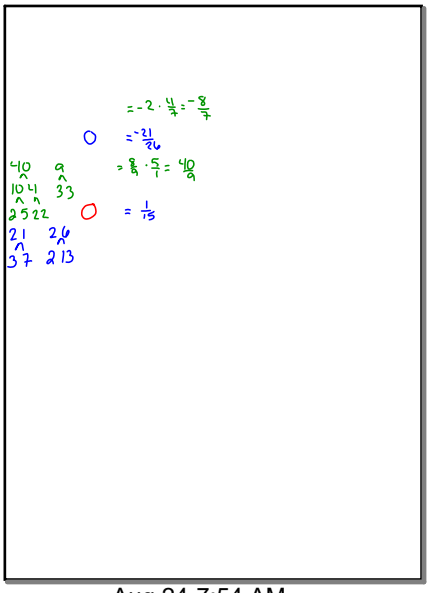

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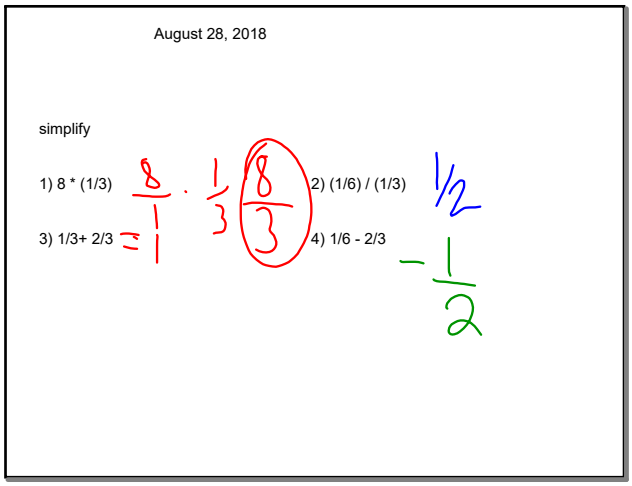

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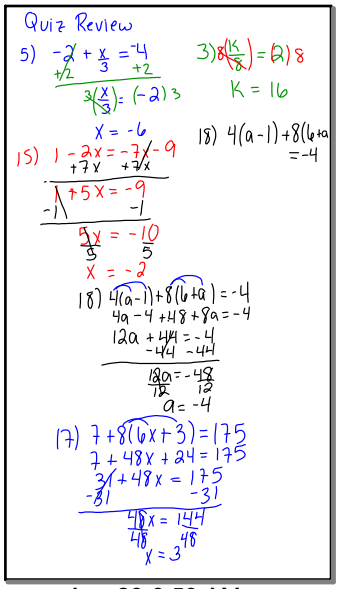

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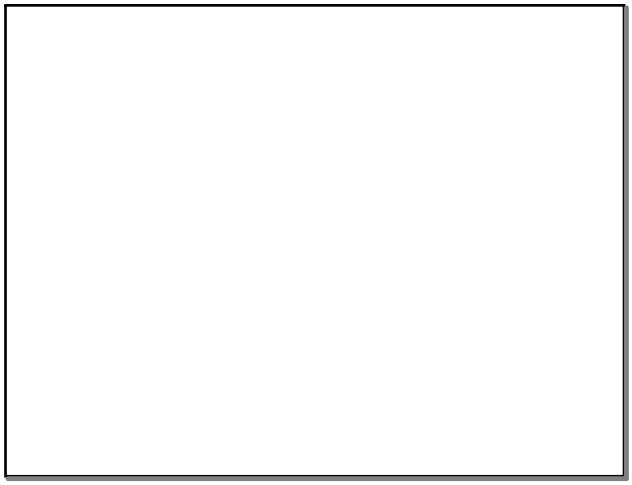

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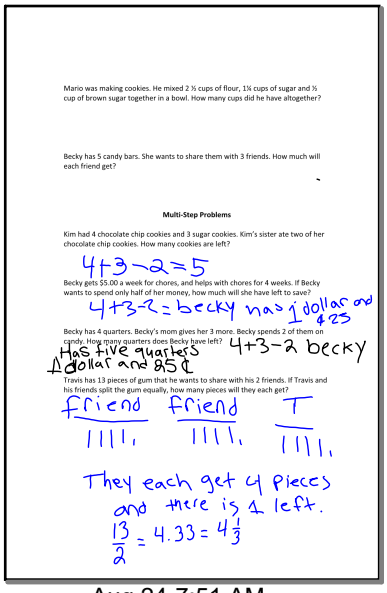

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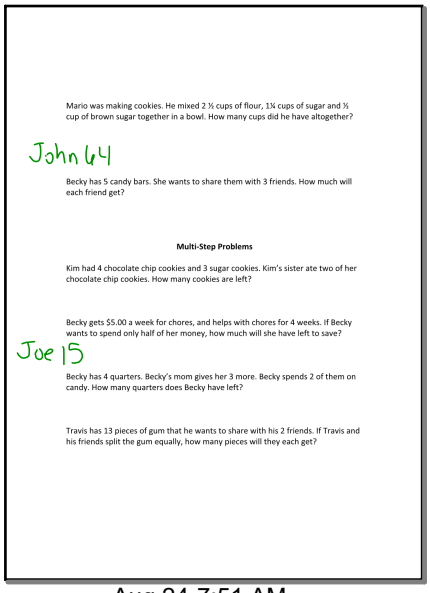

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Fraction Word Problems

#1 Jessica bought 8/9 of a pound of chocolates and ate 1/3 of a pound. How much was left?	#2 Tom bought a board that was 7/8 of a yard long. He cut off 1/2 of a yard. How much was left?
#3 Sam rode his bike 2/5 of a mile and walked another 3/4 of a mile. How far did he travel?	#4 Sally walked 3/4 of a mile before lunch and 1/2 of a mile after lunch. How far did she walk in all?
#5 Don bought 3/4 of a pound of jellybeans and 3/8 pound of gummy bears. How much candy did he buy?	#6 The track is 3/5 of a mile long. If Arlene jogged around it twice, how far would she run?
#7 Which apple weighs more, one that weighs 2/3 of a pound or one that weighs 5/6 of a pound?	#8 Stanley ordered two pizzas cut into eighths. If he ate 5/8 of a pizza, how much was left?
#9 Sandra bought 2¼ yards of plaid fabric and 1¼ of blue. How much cloth did she buy in all?	#10 An equilateral triangle measures 3½ inches on one side. What is the perimeter of the triangle?

Developed by Laura Candler at Teaching Resources (http://home.att.net/~teaching)

Aug 24-9:13 AM

August 29, 2018

Write a fraction you can

1) add

2) subtract

3) multiply

4) divide

That is four different problems...

Aug 27-7:43 AM

August 30, 2018

Simplify.

1) $\sqrt{245}$

2) $-5\sqrt{8b^2}$

3) $\sqrt{192a^3b^2}$

4) $-7\sqrt{32a^3b}$

5) $\sqrt{72x^2y}$

Aug 24-9:15 AM

Comparing and Ordering Whole Numbers

Sometimes it is not easy to tell one butterfly from another. Sometimes it is difficult to tell numbers apart, too.

To compare numbers with the same number of digits:

- Determine which has the larger **first number** (the digit furthest left).

For example, 420 is larger than 240 because 4 is larger than 2.

To compare numbers that have a different number of digits:

- Look at the **place values** of each number. The number that extends the furthest to the left is the larger number.

For example, 240 is larger than 85 because 2 is further to the left than 8 when placed on a place value chart. The number 2 in 240 has a higher place value.

Example

Comparing and ordering the populations of countries around the world involves working with large numbers!

Ravneet and Azim noted the following numbers from their textbook:

13 395 000 15 058 600 20 100 000

Aug 30-7:45 AM

A place value chart, like the one below, can help order and compare the numbers recorded by Ravneet and Azim.

Place Value

One Billions	Hundred Millions	Ten Millions	One Millions	Hundred Thousands	Ten Thousands	One Thousands	Hundreds	Tens	Ones
		1	3	3	9	5	0	0	0
		1	5	0	5	8	6	0	0
		2	0	1	0	0	0	0	0

2 has a value greater than **1**, so 20 100 000 has the greatest value.

5 has a value greater than **3**, so 15 058 600 has the second greatest value.

20 100 000 > 15 058 600 > 13 395 000

Practice: Comparing and Ordering Whole Numbers

1. Bill is keeping a log of the books that he reads and the number of pages in each book. Here is his list for the month of May:

The Macabre Incident — 1205 pages
Screaming Danger — 786 pages
Fighting Times — 876 pages
Terror Below — 1146 pages
Mission Achieved — 250 pages
Awesome Antics — 184 pages.

Put these books in order from least to greatest according to the number of pages.

Aug 30-7:45 AM

2. Melba is pricing used cars. She is interested in the following models:

1994 Honda	$2500.00
1999 Mazda	$7850.00
1998 Datsun	$5025.00
2000 Saturn	$8650.00
1996 Toyota	$3600.00

Place the cars in order from highest price to lowest price.

3. Jody's social studies class is studying economics. Students were asked to form groups and invest the same amount of pretend money in a variety of stocks. Jody's group selected 6 different stocks and, by the end of the activity, had earned the following amounts of money:

Investment 1	~~$ 7035.00~~
Investment 2	~~$ 17 872.00~~
Investment 3	$ 92 450.00
Investment 4	~~$ 6892.00~~
Investment 5	~~$ 87 032.00~~
Investment 6	~~$ 28 782.00~~

Which investment was the best choice during this period of time?
Which was the poorest choice?

List the investments in order from the one that made the least amount of money to the one that made the greatest amount of money.

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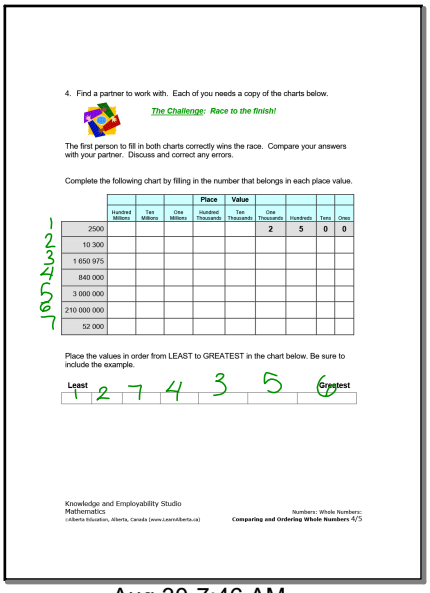

4. Find a partner to work with. Each of you needs a copy of the charts below.

The Challenge: Race to the finish!

The first person to fill in both charts correctly wins the race. Compare your answers with your partner. Discuss and correct any errors.

Complete the following chart by filling in the number that belongs in each place value.

	Place Value							
	Hundred Millions	Ten Millions	One Millions	Hundred Thousands	Ten Thousands	One Thousands	Hundreds	Tens	Ones
2500						2	5	0	0
10 300									
1 650 975									
840 000									
3 000 000									
210 000 000									
52 000									

Place the values in order from LEAST to GREATEST in the chart below. Be sure to include the example.

Least						Greatest
1	2	7	4	3	5	6

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Numbers: Whole Numbers:
Comparing and Ordering Whole Numbers 4/5

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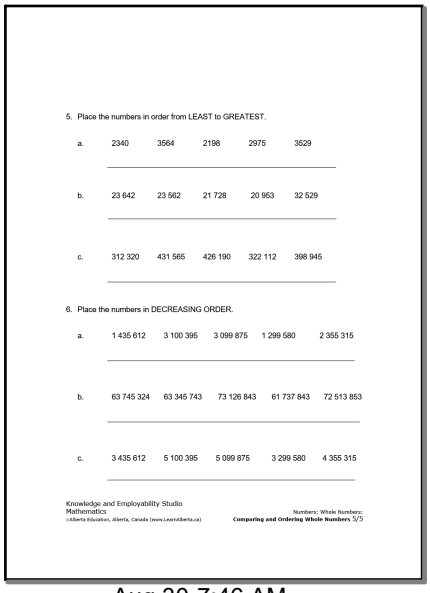

5. Place the numbers in order from LEAST to GREATEST.

a. 2340 3564 2198 2975 3529

b. 23 642 23 562 21 728 20 953 32 529

c. 312 320 431 565 426 190 322 112 398 945

6. Place the numbers in DECREASING ORDER.

a. 1 435 612 3 100 395 3 099 875 1 299 580 2 355 315

b. 63 745 324 63 345 743 73 126 843 61 737 843 72 513 853

c. 3 435 612 5 100 395 5 099 875 3 299 580 4 355 315

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Numbers: Whole Numbers:
Comparing and Ordering Whole Numbers 5/5

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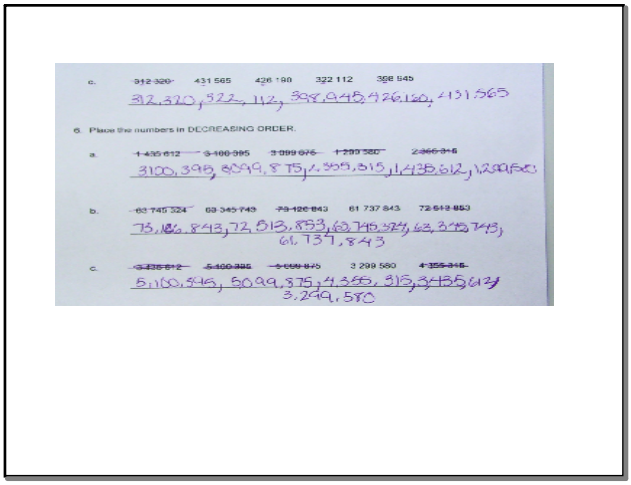

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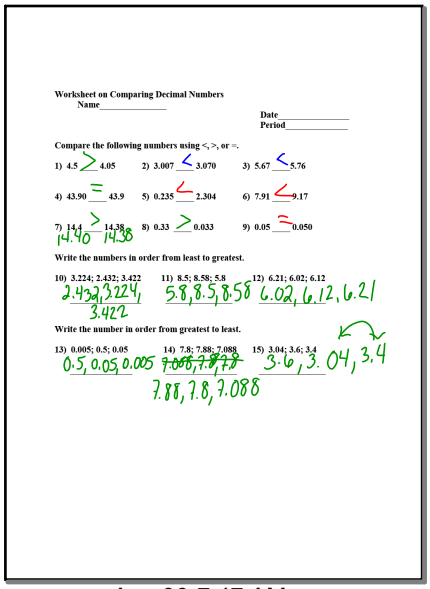

Worksheet on Comparing Decimal Numbers
Name_____ Date_____
Period_____

Compare the following numbers using <, >, or =.

1) 4.5 > 4.05 2) 3.007 < 3.070 3) 5.67 < 5.76

4) 43.90 = 43.9 5) 0.235 < 2.304 6) 7.91 < 9.17

7) 14.4 > 14.38 8) 0.33 > 0.033 9) 0.05 = 0.050

Write the numbers in order from least to greatest.

10) 3.224; 2.432; 3.422 2.432, 3.224, 3.422

11) 8.5; 8.58; 5.8 5.8, 8.5, 8.58

12) 6.21; 6.02; 6.12 6.02, 6.12, 6.21

Write the number in order from greatest to least.

13) 0.005; 0.5; 0.05 0.5, 0.05, 0.005

14) 7.8; 7.88; 7.088 7.88, 7.8, 7.088

15) 3.04; 3.6; 3.4 3.6, 3.4, 3.04

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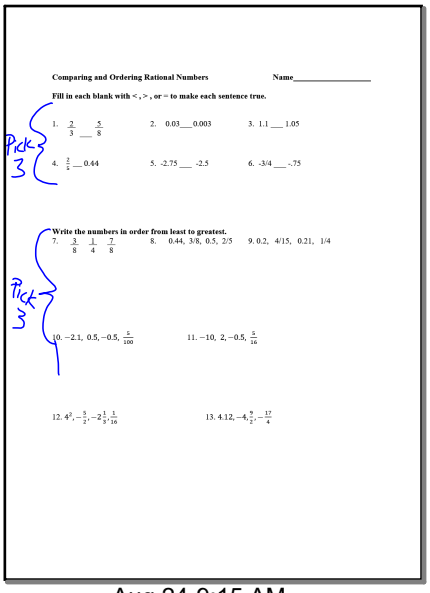

Comparing and Ordering Rational Numbers Name_____

Fill in each blank with <, >, or = to make each sentence true.

Pick 3

1. $\frac{2}{3}$ ___ $\frac{5}{8}$ 2. 0.03___0.003 3. 1.1 ___ 1.05

4. $\frac{2}{5}$ ___ 0.44 5. -2.75 ___ -2.5 6. -3/4 ___ -.75

Write the numbers in order from least to greatest.

Pick 3

7. $\frac{3}{8}$, $\frac{1}{4}$, $\frac{7}{8}$ 8. 0.44, 3/8, 0.5, 2/5 9. 0.2, 4/15, 0.21, 1/4

10. $-2.1, 0.5, -0.5, \frac{5}{100}$ 11. $-10, 2, -0.5, \frac{5}{16}$

12. $4^2, -\frac{5}{2}, -2\frac{1}{5}, \frac{1}{16}$ 13. $4.12, -4, \frac{7}{2}, -\frac{17}{4}$

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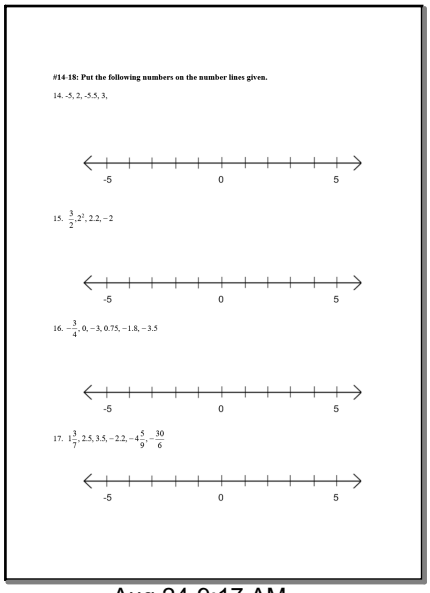

#14-18: Put the following numbers on the number lines given.

14. -5, 2, -5.5, 3,

-5 0 5

15. $\frac{3}{2}, 2^2, 2.2, -2$

-5 0 5

16. $-\frac{3}{4}, 0, -3, 0.75, -1.8, -3.5$

-5 0 5

17. $1\frac{3}{7}, 2.5, 3.5, -2.2, -4\frac{5}{9}, -\frac{30}{6}$

-5 0 5

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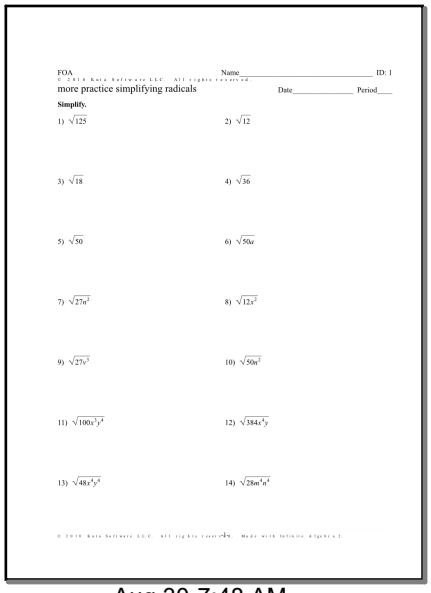

FOA Name_____ ID: 1

more practice simplifying radicals Date_____ Period____

Simplify.

1) $\sqrt{125}$ 2) $\sqrt{12}$

3) $\sqrt{18}$ 4) $\sqrt{36}$

5) $\sqrt{50}$ 6) $\sqrt{50a}$

7) $\sqrt{27n^2}$ 8) $\sqrt{12x^2}$

9) $\sqrt{27v^3}$ 10) $\sqrt{50m^2}$

11) $\sqrt{100x^3y^4}$ 12) $\sqrt{384x^4y}$

13) $\sqrt{48x^4y^8}$ 14) $\sqrt{28m^4n^3}$

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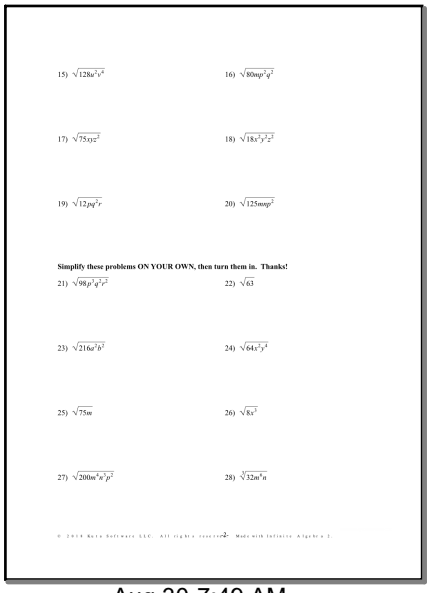

15) $\sqrt{128a^2b^4}$ 16) $\sqrt{80mp^2q^2}$

17) $\sqrt{75xyz^2}$ 18) $\sqrt{18x^2y^2z^2}$

19) $\sqrt{12pq^2r}$ 20) $\sqrt{125mnp^2}$

Simplify these problems ON YOUR OWN, then turn them in. Thanks!

21) $\sqrt{98p^3q^2r^2}$ 22) $\sqrt{63}$

23) $\sqrt{216a^2b^2}$ 24) $\sqrt{64x^2y^4}$

25) $\sqrt{75w}$ 26) $\sqrt{8x^3}$

27) $\sqrt{200m^4n^3p^2}$ 28) $\sqrt[3]{32m^3n}$

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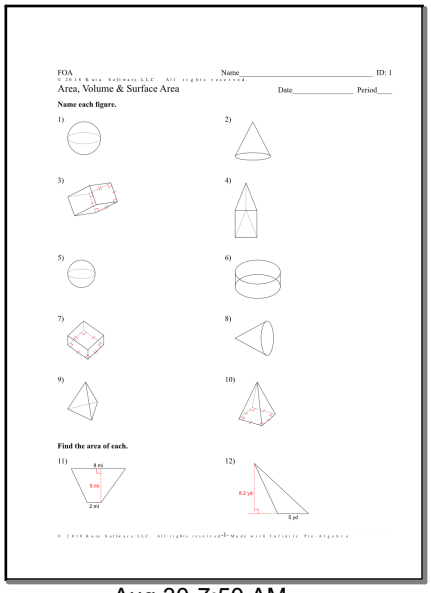

FOA Name_____ ID: 1

Area, Volume & Surface Area Date_____ Period____

Name each figure.

1) 2)

3) 4)

5) 6)

7) 8)

9) 10)

Find the area of each.

11) 8 mi, 5 mi, 2 mi

12) 8.2 yd, 5 yd

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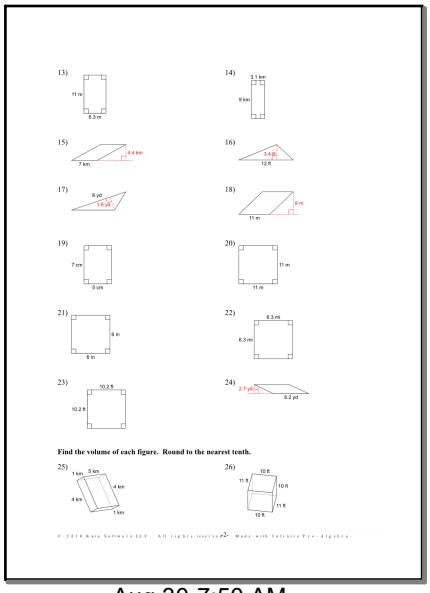

13) 11 m, 8.3 m 14) 3.1 km, 9 km

15) 7 km, 4.4 km 16) 3.4 ft, 12 ft

17) 6 yd, 1.9 yd 18) 11 m, 6 m

19) 7 cm, 5 cm 20) 11 m, 11 m

21) 6 in, 6 in 22) 6.3 mi, 6.3 mi

23) 10.2 ft, 10.2 ft 24) 2.1 yd, 8.2 yd

Find the volume of each figure. Round to the nearest tenth.

25) 3 km, 5 km, 4 km, 4 km, 7 km 26) 10 ft, 11 ft, 10 ft, 11 ft, 10 ft

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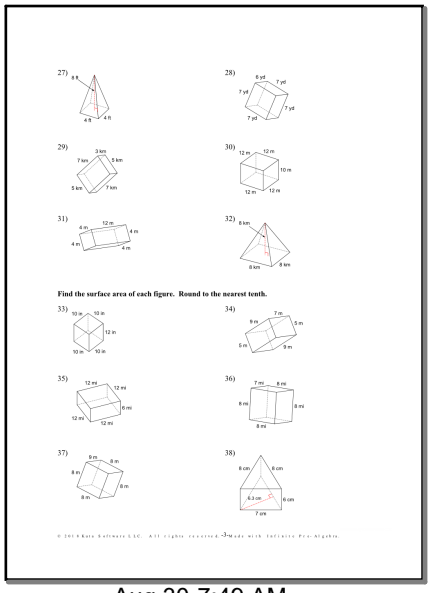

27) 8 ft, 4 ft, 4 ft 28) 6 yd, 7 yd, 7 yd, 7 yd, 7 yd

29) 3 km, 7 km, 5 km, 5 km, 7 km 30) 12 m, 12 m, 10 m, 12 m, 12 m

31) 6 m, 12 m, 4 m, 4 m, 4 m 32) 8 km, 8 km, 5 km

Find the surface area of each figure. Round to the nearest tenth.

33) 10 in, 12 in, 12 in, 10 in, 10 in 34) 7 m, 9 m, 5 m, 5 m, 9 m

35) 12 mi, 12 mi, 6 mi, 12 mi, 12 mi 36) 7 mi, 8 mi, 8 mi, 8 mi, 8 mi

37) 9 m, 9 m, 8 m, 8 m, 8 m 38) 8 cm, 8 cm, 6.3 cm, 6 cm, 7 cm

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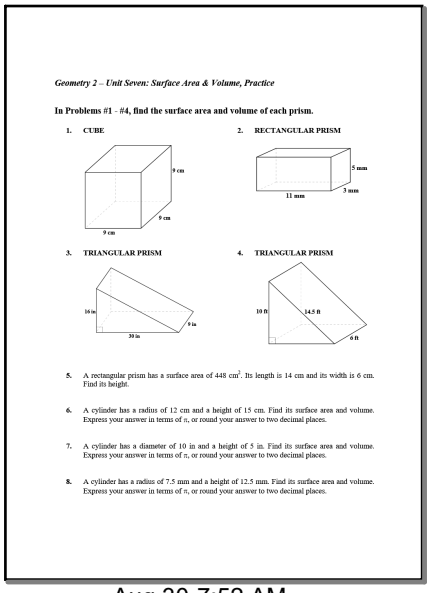

Geometry 2 – Unit Seven: Surface Area & Volume, Practice

In Problems #1 – #4, find the surface area and volume of each prism.

1. **CUBE**

2. **RECTANGULAR PRISM**

3. **TRIANGULAR PRISM**

4. **TRIANGULAR PRISM**

5. A rectangular prism has a surface area of 448 cm^2. Its length is 14 cm and its width is 6 cm. Find its height.

6. A cylinder has a radius of 12 cm and a height of 15 cm. Find its surface area and volume. Express your answer in terms of π, or round your answer to two decimal places.

7. A cylinder has a diameter of 10 in and a height of 5 in. Find its surface area and volume. Express your answer in terms of π, or round your answer to two decimal places.

8. A cylinder has a radius of 7.5 mm and a height of 12.5 mm. Find its surface area and volume. Express your answer in terms of π, or round your answer to two decimal places.

Aug 30-7:52 AM

Aug 24-9:17 AM

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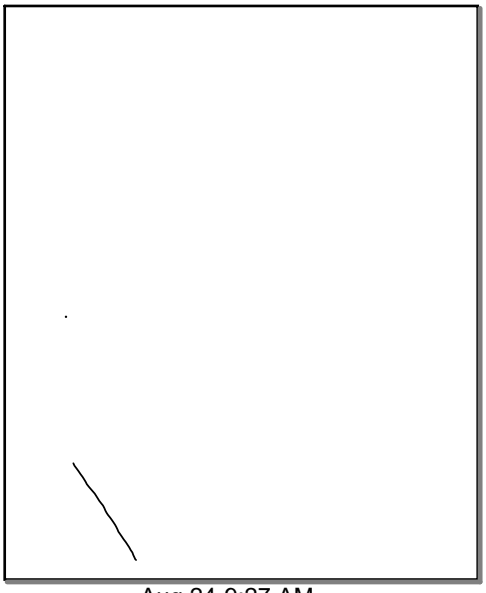

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