

# Level 5 Review Summer Packet

1)

Which of the following fractions is the smallest and the largest?

$\frac{3}{5}$	$\frac{1}{2}$	$\frac{6}{9}$	$\frac{5}{4}$	0
---------------	---------------	---------------	---------------	---

Smallest	Largest
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Find the value of

$3^4 =$  \_\_\_\_\_

$4^3 =$  \_\_\_\_\_

$10^4 =$  \_\_\_\_\_

2)

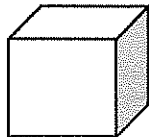
How much do I pay for a 5 minute phone call that costs \$ 1.25 for the first minute and 60 cents for each additional minute?

Give two equivalent fractions for

Given fraction	equivalent	equivalent
$\frac{3}{7}$		
$\frac{1}{4}$		
$-\frac{3}{2}$		

3)

Each side of a metal cube is 4 m. What is the volume of the cube?




In a school year of 200 days total, the teacher was absent for 8% of the days. How many days was the teacher present at school? ( Hint: Round off your answer to the nearest whole number)

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4)

Match the following for different kinds of angles

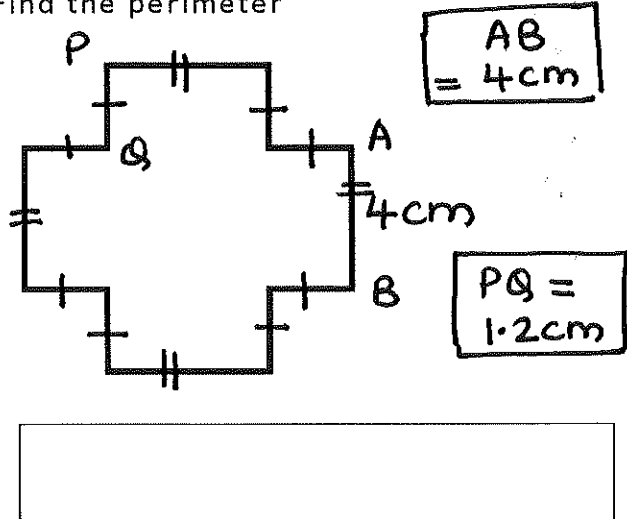
Acute	180 degrees
Right	Between 90 degrees and 180 degrees
Reflex	More than 180 degrees
Straight	Less than 90 degrees
Obtuse	90 degrees

Find the complement and the supplement of the following angles

Given angle	Complement	Supplement
23°		
49°		
20°		

5)

Find the perimeter



The cost of 15 bags is \$42. What is the cost of 60 bags?

6)

The absolute value of  $-4$  is \_\_\_\_\_  
 The absolute value of  $3$  is \_\_\_\_\_  
 The Opposite of  $(-8)$  is \_\_\_\_\_  
 The reciprocal of  $\frac{9}{10}$  is \_\_\_\_\_

The absolute value of  $\frac{-3}{9}$  is \_\_\_\_\_  
 The absolute value of  $9$  is \_\_\_\_\_  
 The Opposite of  $(\frac{-7}{6})$  is \_\_\_\_\_  
 The reciprocal of  $\frac{7}{8}$  is \_\_\_\_\_

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7)

Prime factorize

300


Prime factorize

243


8)

Find the perimeter of a regular Hexagon whose each side is 5.06 cm

A square field has a side of 1.08 meters. A girl runs around it 4 times. How much distance does she cover?

9)

A motor car covers a distance of 58 miles in 4 gallons of gas. What distance will it cover in 10 gallons of gas?

Distance		
gas		

Find  $x$

$$4x - 7 = -9$$

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10)

$$3 \overline{) 4.78}$$

$$11 \overline{) 67}$$

Q =

Q =

11)

a) • How many integers lie between  $-8$  and  $-15$ ? \_\_\_\_\_

b) • How many integers lie between  $-4$  and  $8$ ? \_\_\_\_\_

c) • How many integers lie between  $2$  and  $-8$ ? \_\_\_\_\_

12)

A play ground has a length of 35 feet and a width of 20 feet. What is the area of the playground?

Express as regular numbers

XIII	
LXXXVI	
CLXV	
CCIX	
XCIII	
CXX	

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13) Find the value of

a	Sum of all counting numbers from 1 to 10	
b	Sum of all counting numbers from 11 to 20	
c	Sum of all counting numbers from 21 to 30	
d	Sum of all counting numbers from 31 to 40	

14) Find the value of

a	Sum of all counting numbers from 0-9	
b	Sum of all counting numbers from 10-19	
c	Sum of all counting numbers from 20-29	
d	Sum of all counting numbers from 30-39	

- 15) State True or false
- a) One is the smallest integer. \_\_\_\_\_
  - b) The sum of two positive numbers is negative. \_\_\_\_\_
  - c) The product of two positive numbers is positive. \_\_\_\_\_
  - d) -4 and 4 are at the same distance from Zero on the number line.  
\_\_\_\_\_
  - e) All Whole numbers are integers. \_\_\_\_\_
  - f) All integers are natural numbers. \_\_\_\_\_
  - g) The square of 81 is 9. \_\_\_\_\_
  - h)  $3^6 = 3 * 3 * 3 * 3 * 3 * 3$  \_\_\_\_\_
  - i) The measure of each angle of triangle is 60 degrees. \_\_\_\_\_
  - j) If two figures have the same shape then they are said to be congruent.  
\_\_\_\_\_

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16)

What is the probability of

a) Picking a red sock from a drawer containing 7 blue, 8 red and 4 yellow socks	
b) Not picking a red sock from a drawer containing 6 blue, 11 red and 8 yellow socks	
c) Not picking a blue sock from a drawer containing 5 blue, 7 red and 5 yellow socks	
d) Rolling a prime number on a dice numbered 1-15	
e) Rolling an number greater than 10 on a dice numbered 1-15	

17)

Solve the following decimals

$4.38 \times 0.02$	$4.38 - 1.972$	$3.03 \times 0.6$
<input type="text"/>	<input type="text"/>	<input type="text"/>

Collect the like terms into the given boxes

18)

•  $4x^2, 3xy, -3xy^2, (4/3)xy, -9y^2x, 6x^2$

a)

--	--	--	--	--

b)

•  $-4x, 3y, 9y, (8/7)x, (8/7)x^2, -5y, -5y^2$

--	--	--	--	--

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19) find the Greatest common factor for

<p style="font-size: 1.2em; margin: 0;"><u>40, 70, 55</u></p> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> </table>													<p style="font-size: 1.2em; margin: 0;"><u>96, 36, 60</u></p> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> </table>												
GCF =	GCF =																								

20) (Take  $\pi = 3.14$ ) (Use calculator)

R	5 cm		
D			
$C = \pi d$		=	
$A = \pi R^2$		=	

21) (Take  $\pi = 3.14$ ) Use calculator

R	8 cm		
D			
$C = \pi d$		=	
$A = \pi R^2$		=	

22) Find the value of

	a)	0.05 * 250 =		0.05 * 25 =	
	b)	700 ÷ 1000 =		70 ÷ 1000 =	
	c)	1.020 * 200 =		1.020 * 2 =	

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23)

A man walks 0.08 meters with each step. How many steps will be required to walk a distance of 70 meters?

24)

Fraction operations

C1

C2

C3

$$3\frac{1}{5} * \frac{2}{3}$$

$$3\frac{1}{5} + \frac{2}{3}$$

$$3\frac{1}{5} - \frac{2}{3}$$

25)

$$\frac{-4}{9} * \frac{15}{2}$$

$$\frac{-4}{5} - \frac{15}{2}$$

$$\frac{-4}{3} \times \frac{5}{2}$$

26)

Find the area of a triangle whose base is 12cm and the height is 3.6 cm.



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27) Find the area of a triangle whose base is 12cm and the height is one and quarter times the length of the base.

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28) find the Least common Multiple for

<p style="text-align: center;"><u>20, 30, 40</u></p> <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>LCM =</p>																					<p style="text-align: center;"><u>15, 35, 7</u></p> <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>LCM =</p>																				

29) find the Least common Multiple for

<p style="text-align: center;"><u>26, 65, 130</u></p> <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>LCM =</p>																					<p style="text-align: center;"><u>51, 17, 6</u></p> <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>LCM =</p>																				

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30)

Convert into improper fractions

$8\frac{3}{7}$

$6\frac{2}{5}$

$1\frac{2}{13}$

31)

Convert into mixed fractions

$\frac{41}{7}$

$\frac{29}{3}$

$\frac{91}{6}$

32)

Fraction operations

$3\frac{1}{3} + 2\frac{1}{2}$

$(5\frac{1}{9}) \times \frac{9}{23}$

$3\frac{1}{3} - 2\frac{1}{2}$

Pg 10

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33) Integer operations

	C1	C2	C3
a)	$-2 * -7$	$-11 + 7$	$-10 * -7$
b)	$(-20) + (-9)$	$-13 + (-9)$	$-3 * (15)$
c)	$(-7) * (-10)$	$-5 * (8)$	$-4 * (-9)$
d)	$-7 * (-5)$	$9 + (-10)$	$-4 * (-7)$
e)	$(-4) + (-6)$	$-3 * (0)$	$-10 * (7)$
f)	$-(-3) * (-5)$	$-5 * (-3)$	$-8 * (-9)$

34) At a railway booking office tickets numbering from 1,999 to 2,500 were sold today. How many tickets were sold today?

35) At a railway booking office tickets numbering between 1,945 and 3000 were sold today. How many tickets were sold today?

36) What is the sum of

	C1	C2
a)	Even numbers from 100 to 110	Odd number from 30 and 40
b)	Prime numbers between 30 and 50	even numbers between 300 and 310

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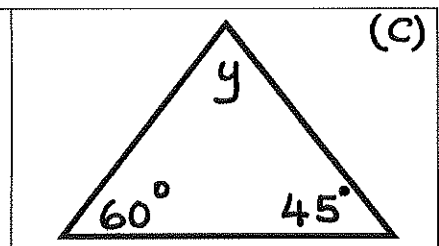
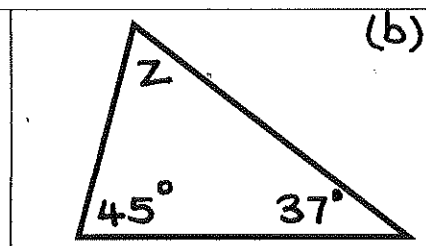
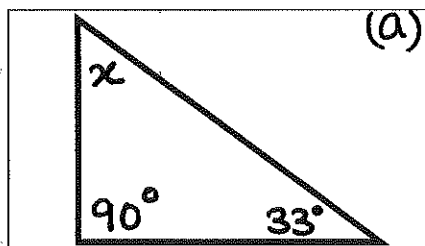
37) The perimeter of a rectangle is 96 meters. Find the length of the rectangle if the width is 20 meters

38) In an examination the passing score is 40%. How many points will be a passing score in the total score of 500 points

39) Three fifth of a number is 90. Find the number

Randy drank  $\frac{3}{5}$  *th* of the juice from a bottle. If he drank 150 ml of juice. How much juice is left in the bottle now?

40) Find the measure of the third angle in the given triangles



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41) (Take  $\pi = 3.14$ )

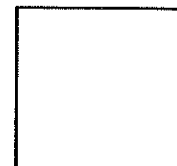
R	6 cm	
D		
$C = \pi d$		=
$A = \pi R^2$		=

42) Sandy types 400 words in 9 minutes. How many words will she type in 2 hours 15 minutes?

43) What the area of a triangle whose base is 70 cm and height is three times the base?

44) A tennis ball is dropped from a height of 120 feet. Each time it bounces, it returns to half the height. What is the maximum height in feet it will reach after its fourth bounce?

45) What is the area of a square whose perimeter is 600 cm?



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46) The sum of two consecutive numbers is 123. What are the two numbers?

47) The sum of two consecutive even numbers is 294. What are the two numbers?

48) The sum of two consecutive odd numbers is 312. What are the two numbers?

49) The sum of three consecutive odd numbers is 231. What are the numbers?

50) When I multiply a certain number by 3, and then divide that product by 4, I get 45. What is the number?

51) When I divide a certain number by 5, the quotient is 99 and the remainder is 3. What is the number?

52) Two numbers add up to 485 and differ by 245. What is the larger of the two numbers?

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53) If three months ago was December, what month will it be 20 months from now?

54) How many numbers between 100 and 150 are divisible by 3 and 5?

55) A farm has chickens and dogs. In all there are 28 legs and 11 heads on the farm. How many chicken and dogs.

dogs	Chicken
------	---------

56) Amy woke up at 9:40 A.M. If she went to lunch 185 minutes later, what time did she go to lunch?

57) Draw stem leaf plot for  
72, 85, 67, 63, 70, 74, 81, 80, 65, 71, 74, 78, 83, 85, 61, 67, 69

Stem	Leaves

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58) find the GCF and LCM of ( leave in product form if necessary)

$30, 26, 13$ <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>																	$24, 16, 40$ <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>																
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LCM = <input style="width: 80px;" type="text"/>	LCM = <input style="width: 80px;" type="text"/>																																

59) A party starts at 8:00 p.m. with ten people at the party. If every 15 minutes, three new people come to the party and nobody leaves, how many people are at the party at 10:30 p.m.?

60) Find

<i>Square of - 11</i>	<i>Square of (0.02)</i>	<i>Cube of - 3</i>	<i>Cube of 0.2</i>
<input style="width: 80px; height: 20px;" type="text"/>	<input style="width: 80px; height: 20px;" type="text"/>	<input style="width: 80px; height: 20px;" type="text"/>	<input style="width: 80px; height: 20px;" type="text"/>

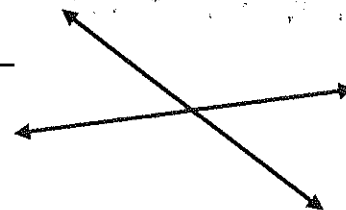
61) Parking fees in Seattle are calculated on a weighted value. The first hour is weighted at 5 times the cost of each of the other hours following. What is the charge, in dollars, for 6 hours of parking if the second hour cost \$1?



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62) Fill in the blanks

- a) What is the probability of drawing hearts from a deck of cards? \_\_\_\_\_
- b) What is the smallest prime number more than 70? \_\_\_\_\_
- c) The cube of  $(-5)$  is \_\_\_\_\_
- d) The smallest whole number is \_\_\_\_\_
- e) The sum of all angles of a rhombus is \_\_\_\_\_
- f) How many seconds make 2 hours? \_\_\_\_\_
- g) The roman numeral for **49** is \_\_\_\_\_
- h) 32 quarts makes \_\_\_\_\_ gallons
- i) If the measure of an angle is  $110^\circ$ , its vertical opposite angle = \_\_\_\_\_
- j) Sum of all counting numbers from 40 to 49 is \_\_\_\_\_
- k) Sum of all counting numbers from 31 to 40 is \_\_\_\_\_



63) The sum of four consecutive numbers is **818**. What is the smallest of these four numbers?

64) What is the cost of a bordering a square frame with each side 7.06 feet at the rate of 2 dollars per feet?



65) What time is it 244 minutes before 7:18 pm?

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- 66) What is the cost of a painting a square box with each side 7.06 feet at the rate of 2 dollars per square feet?




67) Find x  
 $4x - 7 = 15$

Find x  
 $\frac{2}{3}x = 7$

68) Find x  
 $2x + 7 = 9$

Find x  
 $\frac{5}{3}x = -10$

- 69) A snail is in a well 45 feet deep. Each day the snail crawls 10 feet up the side of the well. Each night while it sleeps, it slides down the side of the well 3 feet. How many days will it take for the snail to get out of the well?

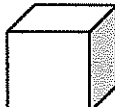
- On an analog clock, what is the measure of the smallest angle, in degrees, formed between the two hands at 9:15 am?

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70) Greg rolls two six-sided dice (numbered 1-6). How many ways are there to get a sum of 8?

A bouncy ball can rebound to half the height it was dropped from. What is the height, in feet, of the 3rd rebound if the ball was initially dropped from a height of 150 feet?

71) Each side of a metal cube is 0.8 cm. What is the volume of the cube



	Exponent	Standard form
a)	$2 * 10^6$	
b)	$4 * 10^4$	
c)	$(-10)^2$	
d)	$5 * 10^3$	

72) What is the sum of the digits of the three consecutive counting numbers whose sum is 312?

Alva attends 70% of school this academic year. If the total number of school days were 160 days, how many was he absent from school?

73) Write 4 five digit palindromes

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74)

What is the interest earned on depositing \$ 1650 in a bank at 3% per year for 2 years?

A model ship is built to a scale of 1 cm: 7 meters. The length of the actual ship is 585.9 meters. What will be the length of the model ship?

75)

If the digits 9 and 4 in the number 45,980 are interchanged, what is the difference between the new and the original number?

What is the least counting number that should be subtracted from 160 to make it a perfect square?

76)

What is the 61<sup>st</sup> even number?

77)

Find the mean, range, median and mode of the following data set:

19	34	24	16	22	18	16	20	30
----	----	----	----	----	----	----	----	----

Mean	Range
Median	Mode

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78)

Find the mean, ~~Range~~, median and mode of the following data set:

90, 23, 45, 78, 78, 45, 60, 37

--	--	--	--	--	--	--	--

Mean	Range
Median	Mode

79)

Find the digit in the units place of the following consecutive number products

Product	<b>31 * 22</b>	<b>22 * 23</b>	<b>23 * 94</b>	<b>204 * 25</b>
Digit in units place				
Product	<b>35 * 26</b>	<b>26 * 47</b>	<b>27 * 58</b>	<b>208 * 29</b>
Digit in units place				

80)

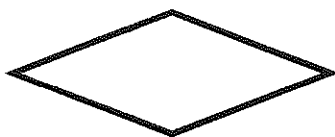
The product of two consecutive numbers is 110. Using guess and check find the numbers?

81)

The product of two consecutive numbers is 272. Using guess and check find the numbers?

82)

What is the area of a rhombus whose two diagonals are 11 cm and 18 cm



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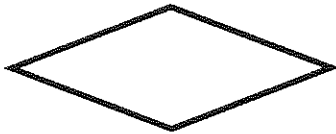
83) Fraction operations

$$-\frac{35}{4} \times \frac{12}{21}$$

$$6\frac{3}{7} - 2\frac{3}{5}$$

$$-3\frac{1}{2} - 2\frac{1}{2}$$

84) What is the area of a rhombus whose two diagonals are 25 cm and 30 cm




85) In a town, 35 out of 50 vehicles are trucks. What percent of the vehicles are trucks? Round off to the nearest tenth.

86) Find the missing number in the series

a)

979	969	959			
-----	-----	-----	--	--	--

b)

-15	-17	-20			
-----	-----	-----	--	--	--

c)

0	-1	-8	-27		
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87) Arrange the following in descending order

$5\frac{1}{6}$        $-2\frac{1}{4}$       0      17       $\frac{81}{10}$       7.4

a)

--	--	--	--	--	--

$\frac{-1}{8}$        $\frac{3}{4}$       0       $-\frac{1}{6}$        $-\frac{4}{5}$        $\frac{7}{10}$

b)

--	--	--	--	--	--

88) Solve

	Column 1		Column 2	
a	$5.5 + 2.48 - 1.76 =$	a	$4.3 * 100 =$	
b	$\frac{7}{33} - \frac{4}{33} + 6 =$	b	$6 - \frac{1}{5} + 1 =$	
c	$7.798 * 100 =$	c	$6.03 - 1.078 =$	
d	$514.3 \div 100 =$	d	$33.6 \div 100 =$	
e	$514.3 \div 1000 =$	e	$514.4 \div 10 =$	

89) Express as decimals

$7\frac{3}{100}$	$\frac{45}{1000}$	$4 + 3\frac{7}{100}$	$5 - \frac{350}{100}$

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90) Express as fractions

<b>34.52</b>	<b>145.4</b>	<b>70.3</b>	<b>0.04</b>

91) Solve

Column 1

Column 2

a)	$5.56 + 2.48 - 1.37 =$	$4.3 * 100 =$
b)	$\frac{7}{13} - \frac{1}{13} + 4 =$	$4 - \frac{1}{5} + 2 =$
c)	$18.02 * 100 =$	$7.334 - 1.078 =$
d)	$123.4 \div 100 =$	$7.03 \div 100 =$
e)	$234.3 \div 1000 =$	$34.3 \div 10 =$

92) A bird is flying at a speed of 13 miles in two hours. Estimate how much time in hours will it need to cover 90 miles?

93) What is the discount in dollars for a TV if the listed price was \$ 340 at 7 % discount?



# Level 5 Review Summer Packet

94)

8 friends shake hands with each other at a meeting. How many handshakes happened in all?

95)

There are 10 red socks, 12 blue socks and 16 white socks in a box. Without looking how many times do you need to draw from the box to ensure that you get a pair of blue socks?

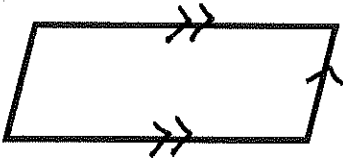
96)

In a garden 2500 rose bushes are planted such the number of rows is equal to the number of ↓  
columns. How many bushes are planted in each row?

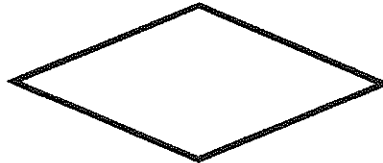
97)

Find the area of the following shapes

Parallelogram  
 $b = 5.2\text{cm}$   
 $h = 3\text{cm}$



Rhombus with diagonals  
18cm 7cm



Parallelogram with  
 $b = 5.02\text{cm}$   $h = 3\text{cm}$



# Level 5 Review Summer Packet

98)

What is the volume of a rectangular prism with length = 6.1 cm, width = 2.3 cm and height = 2.3 cm

What is the volume of a rectangular prism with length = 5 cm, width = 2.2 cm and height = 1.3 cm

99)

What is the volume of a cube with each side 8 cm

What is the volume of a cube with each side 0.6 cm

100)

A concession stand sold  $7^3$  hot dogs, how many hot dogs were sold in all?

A concession stand sold  $9^4$  hot dogs, how many hot dogs were sold in all?

101)

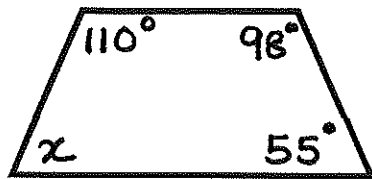
write 100 in the exponential form in as many ways as you can

write 60 in the exponential form in as many ways as you can

# Level 5 Review Summer Packet

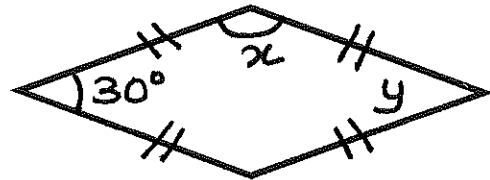
102)

Find the measure of the missing angles



$x =$

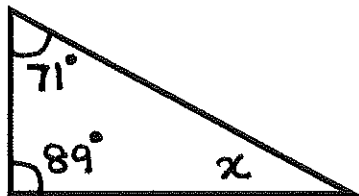
Find the measure of the missing angles



$x =$    $y =$

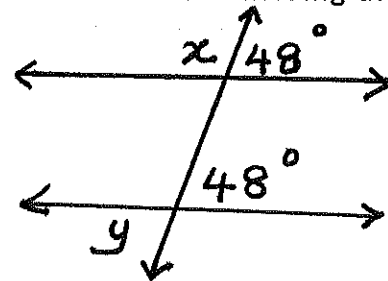
103)

Find the measure of the missing angles



$x =$

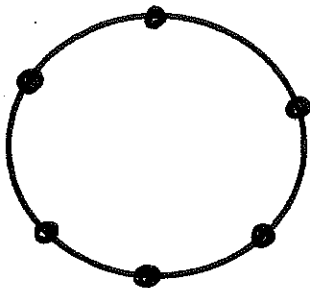
Find the measure of the missing angles



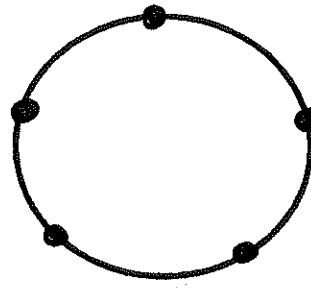
$x =$    $y =$

104)

Six points are marked on the circle below. How many triangles can be drawn joining any three points



Five points are marked on the circle below. How many triangles can be drawn joining any three points



105)

Anna invested \$4000 at 5% interest for 6 years. How much interest will she receive?

Anna invested \$ 3500 at 6% interest for 3 years. How much interest will she receive?

# Level 5 Review Summer Packet

<p>106) On Mars an object weighs 30% as much as on Earth. How much will a 165 pound man weigh on Mars?</p> <p style="text-align: right;"><input type="text"/></p>	<p>A team won 88 out of 160 games played this year. What percent of the games did they win?</p> <p style="text-align: right;"><input type="text"/></p>
<p>107) 35% of the apartments in a complex are two bedroom. If there are 49 two bedroom apartments. How many apartments are there in all?</p> <p style="text-align: right;"><input type="text"/></p>	<p>75% of a city's parks have play structures. If 15 parks have play structures, how many parks are in the city?</p> <p style="text-align: right;"><input type="text"/></p>
<p>108) 17% of the total 120 students at a camp are 7<sup>th</sup> graders. Estimate how many students are 7<sup>th</sup> graders?</p> <p style="text-align: right;"><input type="text"/></p>	<p>49% of the room in a hotel are booked. If the room has a total of 250 rooms, estimate how many rooms are booked?</p> <p style="text-align: right;"><input type="text"/></p>
<p>109) An architect build a 25 inches tall model of a 220 feet tall building that he is planning. If the model is 10 inches wide, how wide is the actual building?</p> <p style="text-align: right;"><input type="text"/></p>	<p>A truck travels 1250 miles in 3 days. How much distance will it cover in 10 days at this rate?</p> <p style="text-align: right;"><input type="text"/></p>

# Level 5 Review Summer Packet

<p>110)</p>	<p>Find the circumference of a dime with a radius of 8.5 mm. Use <math>\pi = 3.14</math> ( round to nearest tenth)</p> <p style="text-align: center;"><input type="text"/></p>	<p>Find the circumference of a nickel with a radius of 20 mm. Use <math>\pi = 3.14</math> ( round to nearest tenth)</p> <p style="text-align: center;"><input type="text"/></p>
<p>111)</p>	<p>Find the area of a pizza with diameter 10 inches. Use <math>\pi = 3.14</math> ( round to nearest tenth)</p>	<p>Find the circumference of a pizza with diameter 10 inches. Use <math>\pi = 3.14</math> ( round to nearest tenth)</p> <p style="text-align: center;"><input type="text"/></p>
<p>112)</p>	<p>Sandy drives 198 miles in 11 gallons of gas and Anna drives 138 miles in 6 gallons of gas. Whose car gives a better average, explain?</p> <p style="text-align: center;"><input type="text"/></p>	<p>what distance will Anna covers if she walks around a pentagonal building with each side = 954 feet</p> <p style="text-align: center;"><input type="text"/></p>
<p>113)</p>	<p>How much fence wire will Anna need to fence a rectangular field 4.87 m by 6m at the rate of 20 dollars per meter?</p> <p style="text-align: center;"><input type="text"/></p>	<p>A artist painted a Mural 8 feet by 20.7 feet. What is the area and the perimeter of the mural?</p> <p style="text-align: center;"> <input type="text"/> A =  <input type="text"/> P =         </p>

# Level 5 Review Summer Packet

<p>114) convert the following</p> <p>18 gallons into pints</p> <p>450,000 pounds into Tons</p>	<p>convert the following</p> <p>182 feet into yards</p> <p>56 fluid ounces into cups</p>
<p>115) A tunnel is 8,448 feet long. How much is that in yards?</p>	<p>Anna's salary is <math>\frac{2}{3}^{\text{rd}}</math> as much as Meha's salary. Find Meha's salary if Anna makes 46,000 every year?</p>
<p>116) The price of an article including the sales tax is \$75. What is the actual price of the article without tax if the tax <math>\frac{1}{10}^{\text{th}}</math> of the total price.</p>	<p>The price of an article including the sales tax is \$60. What is the actual price of the article without tax if the tax <math>\frac{1}{10}^{\text{th}}</math> of the total price.</p>
<p>117) A coat is selling for <math>\frac{3}{4}^{\text{th}}</math> of the original price. The sale price is \$180. What is the original price?</p>	<p>Jane saves \$46 of a salary each week. If she saves <math>\frac{2}{5}^{\text{th}}</math> of her total earnings. What are her total earnings?</p>

# Level 5 Review Summer Packet

<p>118) Ron read <math>\frac{3}{4}</math><sup>th</sup> of a book. Molly said he read <math>\frac{1}{3}</math><sup>rd</sup> of the book as much as Ron. What fraction of the book did Molly read?</p> <p style="text-align: right;"><input type="text"/></p>	<p>Ann wants to make 5 sets of curtains. Each set required <math>5\frac{1}{8}</math> yards of fabric. How much fabric does she need?</p> <p style="text-align: right;"><input type="text"/></p>
<p>119) A radio station spends <math>\frac{1}{40}</math><sup>th</sup> of each of 24 hours on advertisements. How much time does it spend in a week on Advertisements? <i>7 day = week</i></p> <p style="text-align: right;"><input type="text"/></p>	<p>A monitor is on sale at <math>\frac{2}{3}</math><sup>rd</sup> of its original price. If the original price is \$354, what is the sale price of the monitor?</p> <p style="text-align: right;"><input type="text"/></p>
<p>120) When my number is divided by 7, the remainder is 3. When my number is divided by 5, the remainder is 4. Find my number if it is greater than 10 but less than 50.</p> <p style="text-align: right;"><input type="text"/></p>	<p>It takes Anna <math>8\frac{1}{3}</math> minutes to run a mile and Kaylie takes <math>1\frac{1}{5}</math> times longer. How many minutes does Kaylie take to run the mile?</p> <p style="text-align: right;"><input type="text"/></p>
<p>121) Rohini wanted to add the first 11 counting numbers, but she mistakenly left out one of the numbers. Otherwise, she added correctly, and got a sum of 59. What number did she leave out?</p> <p style="text-align: right;"><input type="text"/></p>	

# Level 5 Review Summer Packet

122)	<p>Camden eats <math>\frac{2}{5}</math> of a pie. Then Daniel eats <math>\frac{3}{4}</math> of the remaining pie. What fraction of the pie is left?</p> <p style="text-align: center;"><input type="text"/></p>	<p>Laura has 36 books that are either math books or cookbooks. She has 6 more math books than cookbooks. How many cookbooks does she have?</p> <p style="text-align: center;"><input type="text"/></p>
123)	<p>Han is four and one-fourth feet tall. Sandy is six and one-third feet tall. How many inches taller is Sandy than Han?</p> <p style="text-align: center;"><input type="text"/></p>	<p>What is the largest number that can be divided into both twenty-one and ninety-eight with no remainder in either case?</p> <p style="text-align: center;"><input type="text"/></p>
124)	<p>As a fraction, what is the probability that the first card you draw from a well-shuffled standard deck will be either an ace, a king, or a diamond?</p> <p style="text-align: center;"><input type="text"/></p>	<p>The ratio of boys to girls in Math Club is two to five. There are a total of forty-nine boys and girls in the club. How many girls are there in Math Club?</p> <p style="text-align: center;"><input type="text"/></p>
125)	<p>When I double my age, in years, and then add 19 years, the result is 85 years. How old am I in years?</p> <p style="text-align: right;"><input type="text"/></p>	



**5-8**

**Practice: Word Problems**

**Comparing and Ordering Rational Numbers**

**1. RAIN** The amount of rainfall was measured after a recent storm. The north side of town received  $\frac{7}{8}$  inch of rain, and the south side received  $\frac{13}{15}$  inch of rain. Which side of town received more rain from the storm?

**2. MOVIES** Because he sees movies at his local theater so often, Delmar is being offered a discount. He can have either  $\frac{1}{3}$  off his next ticket or 30% off his next ticket. Which discount should Delmar choose? Explain.

**3. TRACK** Willie runs the 110-meter hurdles in  $17\frac{3}{5}$  seconds, and Anier runs it in  $17\frac{6}{11}$  seconds. Which runner is faster?

**4. FARMING** Cassie successfully harvested  $\frac{7}{12}$  of her crop, and Robert successfully harvested 58% of his crop. Which person successfully harvested the larger portion of his or her crop?

**5. TRANSPORTATION** My-Lien has enough room in her truck to move 3.385 tons of gravel. Her father has asked her to move  $3\frac{5}{16}$  tons. Will My-Lien be able to move all of the gravel in only one trip? Explain.

**6. WOOD WORKING** Kishi has a bolt that is  $\frac{5}{8}$  inch wide, and she drilled a hole 0.6 inch wide. Is the hole large enough to fit the bolt? Explain.

**7. PIZZA** In a recent pizza-eating contest, Alfonso ate  $1\frac{3}{8}$  pizzas, Della ate  $1\frac{3}{10}$  pizzas, and Delsin ate  $1\frac{4}{9}$  pizzas. Which person won the contest?

**8. STUDYING** For a recent algebra exam, Pat studied  $1\frac{8}{15}$  hours, Toni studied  $1\frac{11}{20}$  hours, and Morgan studied  $1\frac{9}{16}$  hours. List the students in order by who studied the most.

**6-1**

**Practice: Word Problems**

**Estimating with Fractions**

**COOKING** For Exercises 1–4, use the recipe shown below.

<b>Lightning Creamed Potatoes</b>
$\frac{1}{3}$ cup water
$1\frac{1}{2}$ teaspoon salt
$3\frac{3}{4}$ cups pared potatoes, cut in bite-size pieces
$\frac{1}{3}$ cup finely chopped onion
$\frac{1}{2}$ cup light cream

serves 6

Pg (34)

- |   |  |
|---|--|
| <p>1. Daniel wants to serve twelve people the Lightning Creamed Potatoes. how much salt he will need if he doubles the recipe.</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div>   | <p>2. Rosita wants to triple the recipe above. how many cups of pared potatoes she will need.</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div>   |
| <p>3. Alvin is going to serve six people. He only has <math>1\frac{1}{4}</math> cups of pared potatoes. About how many cups of potatoes will he have to borrow?</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div>  | <p>4. Katrina wants to make half of the recipe. About how many cups of potatoes will she need?</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div>  |
| <p>5. <b>CARPENTRY</b> A board is <math>17\frac{3}{4}</math> inches long. Carmen wants to shorten the length by about <math>1\frac{7}{8}</math> inches. find the length of the board after the board has been shortened.</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div> | <p>6. <b>TRACK</b> Akira ran two miles. He ran the first mile in <math>7\frac{3}{4}</math> minutes and the second mile in <math>8\frac{3}{4}</math> minutes. how long it took Akira to run two miles.</p> <div style="text-align: right; border: 1px solid black; width: 100px; height: 25px; margin-left: auto;"></div> |

Pg (34)

# "Math is Cool" Masters - 2005-06

Sponsored by:

5th Grade - May 20, 2006

Checked by  
Recheck using Answer key

Teacher Comments  
Complete Incomplete

## COLLEGE KNOWLEDGE BOWL ROUND #1

#	Problem	Answers
1	If the average of three consecutive whole numbers is 24, what is the difference between the largest of these three whole numbers and the smallest?	
2	Find the sum of the quantity of $45 + 45 + 45 + 45 + 45$ , and the quantity of $55 + 55 + 55 + 55 + 55$ .	
3	What is the correct time 3600 seconds before 1:30 PM?	
4	Evaluate 11 cubed.	
5	Mickey is twice as old as Donald and Donald is twice as old as Huey. If Huey is 12 years old, how old is Mickey, in years?	
6	From the first 25 positive whole numbers, 5 numbers, all even, are removed. What percent of the remaining numbers are even?	
7	On a 20-question test, correct answers are worth 5 points, unanswered questions are worth 2 points, and incorrect answers are worth 0 points. What was Caleb's score if he answered 10 questions and got 5 correct?	
	<b>Extra Problem - Only if Needed</b>	
8	Reduce the following: five hundred eighty five over three thousand three hundred fifteen. ( $585/3315$ )	

# "Math is Cool" Masters - 2005-06

Sponsored by:  
5th Grade - May 20, 2006

## COLLEGE KNOWLEDGE BOWL ROUND #2

#	Problem	Answers
1	What is the reciprocal of the sum of four sevenths and seven fourths?	
2	If the pattern ABCDABCDABCD...continues, what would be the 2006 <sup>th</sup> letter in the pattern?	
3	Find the largest prime factor of 30 times 40 times 50.	
4	If I roll two 6-sided dice, what is the probability that I will have a sum of 2 or 12?	
5	A 1200-word story averaged 5 letters per word and had a vowel to consonant ratio of 3 to 5. How many consonants did this story contain?	
6	If two angles in a triangle are complementary, what is the measure, in degrees, of the third angle?	
7	A row of 9 soup cans are lined up in a row and 8 are stacked on top, then 7, then 6 and so forth until there is only 1 can stacked on the very top. How many soup cans were used to form this arrangement?	
	<b>Extra Problem - Only if Needed</b>	
8	How many positive prime numbers have a one's digit of 5?	

C1

C2

1	Find $-1273 + 596 + 227 - 104 + 357$	<input type="text"/>	By what smallest number should you multiply the product of 2, 5, 7 and 10 so that the resulting number is a perfect square	<input type="text"/>
2	By what smallest number should you multiply the product of 4, 9, 7 and 10 so that the resulting number is a perfect square	<input type="text"/>	By what smallest number should you multiply 432 so that the resulting number is a perfect square	<input type="text"/>
3	Add: $(2a + 3b)$ , $(7b - 3c)$ and $(6a - b + c)$	<input type="text"/>	Add: $(2a - 3b)$ , $(8b - 3c)$ and $(6a - 2b + 3c)$	<input type="text"/>
4	Two cyclists start cycling at 10:00 am in opposite direction with speed of 15 km/ hour and 20 km/ hour respectively. How far will they be from each other at noon at same day	<input type="text"/>		<input type="text"/>

5/ -Pg (37)

C1

C2

1	Which simple interest rate is the greatest (interest payable yearly)? a) 12% per annum b) 1% per month c) 3% quarterly d) All rates are equal	Find the simple interest on \$5000 at the rate of 5% per year for one year? <input type="text"/>
2	Find the simple interest on \$8500 at the rate of 2% per year for 2 years? <input type="text"/>	Find the simple interest on \$5000 at the rate of 5% per year for 3 years? <input type="text"/>
3	Which of the following digits cannot be in the units place of a square number a) 8 b) 0 c) 4 d) 1	If $x = 2, y = -3$ and $z = -2$ , find the value of $3x + 2y - 3z$ <input type="text"/>
4	If $x = -2, y = 2$ and $z = -6$ , find the value of $3x + 2y - 3z$ <input type="text"/>	Find the amount received if \$ 3500 at the rate of 3% per year for 2 years? <input type="text"/>

5 - Pg (38)

Solve

	Column 1	Column 2
g)	$3x(3x^2 - 5x)$ <input type="text"/>	$-3x(-3x^2 + 5x)$ <input type="text"/>
h)	$3x - (3x^2 - 5x)$ <input type="text"/>	$-3x - (-8x - 5x^2)$ <input type="text"/>
i)	$2x(4x - 3y)$ <input type="text"/>	$-2x(4x - 3y)$ <input type="text"/>
j)	$-2x - (-3x) + 4x(x)$ <input type="text"/>	$[-2(x)(y) - 5xy][2]$ <input type="text"/>
k)	$(ab)^2(ab)$ <input type="text"/>	$[-2xy - 5(x)(y)](-2x)$ <input type="text"/>
l)	$(a^2b)(-ab)$ <input type="text"/>	$(-3ab)(-2a)(-3)$ <input type="text"/>

Solve

	Column 1	Column 2
a)	$(4x^2 - y)(-2y)$ <input type="text"/>	$(2x - 3y)(-3x)$ <input type="text"/>
b)	$-3x(-2x)(-2)$ <input type="text"/>	$(2x - 3y)(-3x^2)$ <input type="text"/>
c)	$5(-3x) - 4(2y)$ <input type="text"/>	$(2x - 3y^2) - (8y)(y)$ <input type="text"/>
d)	$(2x)(3x)(4x)^2$ <input type="text"/>	$(2x^2)(3x)(4x^2)$ <input type="text"/>
e)	$(2x)^2(3x)(4x)^2$ <input type="text"/>	$(-2x)^2(-3x)^2$ <input type="text"/>
f)	$-(2x)^2 - (-3x)^2$ <input type="text"/>	$(-2x)^2 - (3x)^2$ <input type="text"/>