

Incoming Course 2 Students
Summer Packet



About the Summer Packet

An answer key is attached for you to check your answers. Summer work will be collected during the first week of school.

Week 1

This week, complete the following IXL skills. You should aim for a SmartScore between 70 and 80!

- E.8 Add, subtract, multiply, and divide decimals: word problems
- I.1 Fractions on number lines
- I.5 Write fractions in lowest terms

Week 2

This week you will complete page 2 (page number located on the bottom of the page):

The Number System

Week 2:

THE NUMBER SYSTEM

Skills Practice

Find each sum or difference.

1. $42.7 + 52.12$

2. $4.7 - 3.28$

Multiply.

3. 1.2×0.015

4. $4\frac{3}{4} \times 2\frac{1}{8}$

Problem Solving

5. The table below shows the overnight low temperatures for a four-day period. Write the temperatures in order from least to greatest.

Temperatures (°F)	
Monday	-7
Tuesday	8
Wednesday	19
Thursday	-10

6. Kanye and his two friends are sharing the cost of lunch. The total costs of the bill is \$15.27. If Kanye has \$20, how much will he have left after he pays his share?

7. A box of mixed nuts packs weighs $16\frac{1}{2}$ ounces. Each mixed nuts pack weights $1\frac{3}{8}$ ounces. How mixed nuts snack packs are in the box?

8. A new sweater costs \$15.99. If the sweater is on sale for $\frac{1}{4}$ off its price, about how much would you save?



Week 3

This week, complete the following IXL skills. You should aim for a SmartScore between 70 and 80!

- E.9 Least common multiple
- E.7 Greatest common factor
- R.1 Write a ratio

Week 4

This week you will complete page 3 (page number located on the bottom of the page):

Ratio and Proportional Relationships

Week 4:

RATIOS AND PROPORTIONAL RELATIONSHIPS

Skills Practice

Find the greatest common factor or least common multiple of each set of numbers.	
1. 18 and 24 GCF = _____	2. 9 and 12 LCM = _____
Write each fraction as a decimal and each decimal as a fraction in simplest form.	
3. $\frac{16}{40}$	4. 0.48

Problem Solving

5. Michelle wants to buy a cellular phone. The phone is 30% off the original price. If the original price of the phone is \$135, what is the amount Michelle will save?	6. The number of students in the drama club increased by a factor of 1.7 from the previous year. Write 1.7 as a percent.
7. The Camdens drove 116 miles on 5 gallons of gas. At this rate, how many miles can they drive on 7 gallons of gas?	8. The ratio of boys to girls on the bus is 2 to 3. If there are 18 boys on the bus, how many girls are on the bus?



Week 5

This week, complete the following IXL skills. You should aim for a SmartScore between 70 and 80!

- Y.5 Evaluate multi-variable expressions
- S.5 Solve one-step equations

Week 6

This week you will complete page 4 (page number located at the bottom of the page):

Expressions and Equations



Week 6:

EXPRESSIONS AND EQUATIONS

Skills Practice

Evaluate each expression if $x = 4$.

1. $x + 9$

2. $3(x - 2)$

Solve each equation. Check your solution.

3. $a + 1.5 = 4.1$

4. $9.4y = 28.2$



Problem Solving

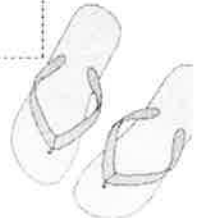
5. Deon reads an average of 92 pages each week. Write an equation to represent the number of pages read after any number of weeks.

6. Justin is making 36 brownies for his sister's class. Using the table as a guide, how many eggs will Justin need to make 36 brownies?

Eggs Needed for Brownies	
Number of Brownies	Number of Eggs
9	1
18	2

7. Six friends went to a basketball game. The price of admission per person was $\$x$. Four of the friends paid an extra $\$5$ each for a souvenir t-shirt. Write and simplify an expression that represents the total cost.

8. Perfect Pies charges $\$6$ for an apple pie. Ayesha has $\$30$ to buy apple pies for the chorus club. Write and solve an inequality to find the maximum number of apple pies that Ayesha can buy?



Week 7

This week, complete the following IXL skills. You should aim for a SmartScore between 70 and 80!

- CC.1 Calculate mean, median, mode, and range
- GG.20 Interpret box-and-whisker plots

Week 8

This week you will complete page 6 (page number located at the bottom of the page):

Statistics and Probability

Week 8:

STATISTICS AND PROBABILITY

Skills Practice

Find the mean of each data set.

1. 21, 31, 18, 19, 16

2. 2, 6, 3, 0, 1, 9, 1, 3, 4, 1

Find the mean absolute deviation for each set of data. Round to the nearest tenth if necessary.

3. 68, 69, 66, 75, 58, 72

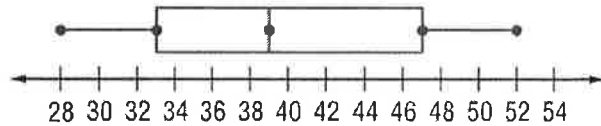
4. 47, 35, 46, 56, 40, 42, 52, 30

Problem Solving

5. The table shows the length of different worms. Find and compare the median and mode of the data.

Worms Length (cm)			
15	19	12	30
16	11	18	19
14	14	12	14

6. The box plot below shows the number of cans collected by the student council. What is the median in the box plot?



7. Bradley washed 8 cars. He earned \$10, \$12, \$15, \$15, \$15, \$9 and \$10 for 7 cars. How much did he earn the eighth time if the mean of the data is \$12?

8. The results of a survey about the cost of earrings at a jewelry store in the table. What is the first quartile of the data?

Price of Earrings					
94	44	88	83	40	50
84	72	50	78	62	75
29	98	85	45	31	100

6th Grade SUMMER Math Packet - ANSWER KEY

Question #	The Number System	Ratios and Proportional Relationships	Expressions and Equations	Geometry	Statistics and Probability
1.	94.82	6	13	48in ²	21
2.	1.42	36	6	150cm ²	3
3.	0.018	0.4	2.6	24ft ³	4
4.	$10\frac{3}{32}$	$\frac{12}{25}$	3	20.3m ³	6.8
5.	-10 -7, 8, 19	\$40.50	$p = 92w$	3.2 feet	Median 14.5, mode 14; median is 0.5 cm larger than the mode
6.	\$14.91	170%	4	Container A	39
7.	12 packs	162.4 miles	$4(x + 5) + 2x; 6x + 20$	242.4mm ²	\$10
8.	About \$4.00	27 girls	$6p \leq 30; p \leq 5$	9.5/in	45