

Maths 4 U Fifth Grade

Serie Maths 4 U

Libro metodología CLIL aplicada al aprendizaje y práctica de matemáticas en inglés como lengua extranjera.

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Multiplying and dividing



Read and answer the questions.

Santiago wants to buy some plastic to cover his new notebooks for the next school year. He needs 41.8 cm for each notebook.

How much plastic does he need for his 10 notebooks?

There are 10 students in his class and each student has 10 notebooks, how much plastic will they use together?



Look and complete.

Multiplying		Dividing	
10 000 1 000 100 10	1	1	1
	10	100	1 000
X 10 digits move left spaces	÷ 10	digits move right	spaces
X 100 digits move left spaces	÷ 100	digits move right	spaces
X 1 000 digits move left spaces	÷ 1 000	digits move right	spaces
<			\rightarrow





Answer these.

Numbers	Times 10	Times 100	Times 1 000
0.413			
7.45			
0.128			
10			
88.4			(

1400

Answer these.

Numbers	Divided by 10	Divided by 100	Divided by 1 000
23.567			
14.34			
10			
87.965			
5.427			

Solve these and write how long it takes you.

a) 0.698 x 10 =	f) 5.595 x 100 =	000
b) 1.8 x 10 =	g) 0.4 x 1 000 =	
c) 7.9 x 10 =	h) 0.241 x 1 000 =	Π
d) 7.652 x 100 =	i) 9.353 x 1 000 =	
e) 0.57 x 100 =	It took me about	





Look, talk and colour the boxes.

• Practise multiplying and dividing by 10, 100, 1000.

Use the following colours: 10 – blue, 100 – orange, 1000 – pink.

0.06	5.95	27.98	27.98	65.289	13.8
60	59.5	0.2798	27980	652,89	0.138
287.6	0.325	1100	110	0.343	29900
2.876	3.25	1.1	1.1	3.43	29.9
12.65	3.25	2.87	2.87	3.43	3.99
12650	32.5	0,0287	2870	34.3	0.0399
10870	0.00301	120	12	32.198	86598
108.7	0.0301	0.12	0.12	321.98	865.98





Rules of divisibility



Read and answer the question.

Carlos is arranging cans of sodas on shelves. He has 24 cans of regular coke and 16 cans of light coke.

Each shelf will have the same number of cans of regular coke or light coke. If Carlos must place all of the cans on shelves, what is the possible number of shelves Carlos will use?

														\mathbf{r}		
_																

Read and cross out the digit that shows why a number is not a divisible one.

Divisibility Rules								
A number is divisible by	Divisible	Not divisible						
2 if the last digit is even (0, 2, 4, 6 or 8).	3 97 <mark>8</mark> √	4 97						
3 if the sum of the digits is divisible by 3.	315	139						
4 if the last two digits form a number divisible by 4.	8 512	7 518						
5 if the last digit is 0 or 5.	14 975	10 978						
6 if the number is divisible by both 2 and 3.	48	20						
9 if the sum of the digits is divisible by 9.	711	93						
10 if the last digit is 0.	15 990	10 536						







Look and circle.



Place the numbers on the Venn diagram. What are the numbers divisible by?







Write the numbers in the correct section.





Multiples

Look, read and complete.

x	1	2	3	4	5	6	7	8	9	10	11	12	a) 8,
1	1	2	3	4	5	6	7	8	9	10	11	12	multi
2	2	4	6	8	10	12	14	16	18	20	22	24	b) 11
3	3	6	9	12	15	18	21	24	27	30	33	36	multi
4	4	8	12	16	20	24	28	32	36	40	44	48	
5	5	10	15	20	25	30	35	40	45	50	55	60	
6	6	12	18	24	30	36	42	48	54	60	66	72	
7	7	14	21	28	35	42	49	56	63	70	77	84	
8	8	16	24	32	40	48	56	64	72	80	88	96	
9	9	18	27	36	45	54	63	72	81	90	99	108	
10	10	20	30	40	50	60	70	80	90	100	110	120	
11	11	22	33	44	55	66	77	88	99	110	121	132	
12	12	24	36	48	60	72	84	96	108	120	132	144	

a) 8, 12, 16, and 20 are all

multiples of _____ .

b) 11, 22, 33, 44 and 55 are all multiples of _____.

Find the multiples of the following numbers.

12	
12.	•
8.	
10.	
6.	

Read and write numbers to complete the example.

24 is a common multiple of 2, 3, 4, 6 and 8.	
Multiples of 2: 2,,,,,,,	,,,, <mark>24</mark>
Multiples of 3: 3,,,,,,, 24	4
Multiples of 4: 4,,,,, <mark>24</mark>	
Multiples of 6: 6,,, <mark>24</mark>	
Multiples of 8: 8,, <mark>24</mark>	
Since 24 is a multiple of,,, and	, it is considered a common multiple .



Find the first two common multiples for each set of numbers.

a)
6
9
D)
3
4
c)
7.
8
a)
6.
12
9
b)
2
4
8
7
9
21





Write the factors of these numbers – in order.

12=	81=	
18=	36= _	
27=	50=	
Read and find the factor	s of the numbers or	the right.
		10 =X
		24 = X
		32 =X
		18 =X
Factors are numbers that you	multiply	30 = X
together to get another numb	per.	
For example, 2 multiplied by	4 equals 8. So 2	39 = X
and 4 are the factors of 8.		
Look and find the missing	factors.	
$15 = 3x_{$	I = 3 x	Remember, when a factor is a prime
42 = 7 x 30	6 = 2 X 2 X 3 X	number, it is called "a prime factor."
$75 = 5 \times 3 \times 45$	5 = 9 x	
60 = 2 x 3 x 2 x		
	20	



Complete the prime factor tree for each number.



Prime numbers

Read and colour all the prime numbers. Then answer the questions.

Prime numbers are numbers (greater than 1) that cannot be divided by any number; except themselves and 1.

7 is a prime number because it can only by divided by 7 and 1.

70 is not a prime number because it can be divided by 70, 35, 14, 10, 7, 5, 2 and 1.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

a) Is the number 7 a prime number?
Why (not)?
c) Is the number 9 a prime number? Why (not)?

b) Is the number 8 a prime number?
Why (not)?
d) IS the number 5 a prime number?
Why (not)?













UNIT 2 Inverse operations



Read and answer the questions.



- 1) You think of a number. Then multiply it by 2 and the answer you get is 24, what was your number?
- 2) You think of a number. Then subtract 25 and add 2. The answer you get is 27, what was your number?
- 3) You think of a number. Then add 15 and multiply it by 2. Next you divide it by 2 and the answer you get is 16, what was your number?
- 4) You think of a number and double it. Then you add 31. Next you subtract 4. The answer you get is 149, what was your number?

Read and complete the definition and the example.







Solve these.

a)	(5	Х	4)	+	13	=		b)	(36	-	6)	Х	10	=		
C)	(12	+	3)	-	8	=		d)	(7	Х	5)	+	11	=		
e)	(22	-	5)	+	4	=		f)	(25	+	7)	Х	2			

Look and solve the operations. Then circle the correct answer and cross out

the incorrect ones.









between 567 442 and 385 556. 431?









Word problems

Read and answer the questions.

1. Mike purchased a vehicle for \$59 425 and spent \$ 8 652 on repairs. How much did the vehicle really cost?

2. 82 317 people watched the semi-final football match of the world cup, but 31 896 more people watched the finals. Find the number of people who watched the finals.

3. Two brothers bought a new television set and gave their old television in exchange. Their old television values \$ 7850. They had to pay the dealer \$ 29 375. What was the cost of the new television set?



4. Aaron withdrew \$38 273 from his savings account. Then he withdrew \$12 859 more. He found the balance of \$26 532 in his account. What amount did Aaron have initially?











Lines, segments and rays



Read and answer the questions.

Draw to illustrate the arrangements.

Cars needed: _____

Fabric for each flag: ____

54 third grade students are going on a camping trip and will travel by car.

If each car holds 6 students, how many cars will be needed?

Samantha used 21 meters of fabric to make 6 large flags of her basketball team. How much fabric did she use for each



Read the definitions and write the words.



It is a part of a line between two end points.

It is a part of a line that has one end point and extends in one direction without ending.





Match the words with the lines.



Look and label the pictures.





Look and write. Use the words on page 31.





. . .

Angles



Read and answer the question.

A Ferris wheel makes five full rotations and then stops to let more riders on. How many degrees in total did the Ferris wheel rotate before stopping?

Explain what you did to find the answer:

.

.

.

. . . .

........

Read and use the words to complete the instructions.

be	up	This	at	to	with	of	on
You can make a :	use a protract sensible estimo	or mea	asure the siz	e an c	angle – It co	an also	_ helpful to
1	angle is acute	e. The estima	te is 70°.	, ,			
2. Place	the cross of the	ne protractor			4		<
top of th	ne corner of th	e angle.		uninitation to	60 10 100 9() 100 110 80 10 120 50 2	Magnin
3. Line	the botto	om line of the	è	the second	s	50	5 5 50 HILL
protract	or one c	of the lines of	the	1200 T			260 2160
angle.			-)	
4. Startir	ng 0°, co	ount up to the	e angle's			2	
other lin	e and read the	e measurem	ent. This	3			
angle is	67°.						-





Read and label the angles.





Read and answer the questions. Draw to illustrate your answers.

1. A water sprinkler covers 90 degrees of a backyard lawn. How many times will the sprinkler need to be moved in order to cover the full area of lawn?



2. A ceiling fan rotates 75 degrees and then stops.How many more degrees does it need to rotate in order to make a full rotation?



At ice-skating lessons, Rocy attempts to do a 360 degree spin but only manages a quarter-turn on her first attempt. How many degrees short of her goal was Rocy's first attempt?









UNIT 3 Comparing fractions



Read and answer the question.

Dana is making shorts for her son's soccer team. Yesterday, she used 4 / 6 m of cloth and today she used 3 / 5. When did she use more cloth?

Explain what you did to find the answer:

Read and complete.

Equivalent fractions are fractions that have the same

value, but they are written differently.



You can also use pictures to represent them.










Word problems

Read and answer the questions.

1) What fraction has denominator 12 and is equivalent to 3 / 4?



3) Yesterday Andrew planted 7 / 9 m^2 of corn on his farm. Today he has planted 5 / 7 m^2 . On which day did he plant more?









Problems with fractions – addition and subtraction



Read and answer the questions.

Anna wants to bake two cakes to sell. She is making the list of ingredients she needs to buy. For the chocolate cake, she needs 3 / 5 of flour, for the cheesecake, she needs 6 / 4.

How much flour does she need to buy? Each kilo of flour costs \$11 pesos, how much will she spend on the flour for the two cakes?

Adding fractions with unlike denominators

Read and complete.

First, write them as equivalent fractions to have a common denominator.





Remember that you can simplify an improper fraction by finding a number to divide both the numerator and the denominator.





Word problems

Read and answer the questions.

1. Rebecca went to the beach and she noticed that she was leaving footprints as she walked. The first day, she walked 5 / 6 of the distance between the hotel and the restaurant. The second day, she walked 7 / 9.

 When did she walk the most?

 What distance did she walk in total?

 Image: Control of the most of the

2. The kilo of sugar or coffee costs \$12. How much did Pablo pay if he bought 9/15 of

sugar and 7 / 11 of coffee?





3. Bob sells 2 / 5 of his land, rents out 3 / 9 and uses the rest to grow tomatoes. What section of the farm does he use?





Subtracting fractions with unlike denominators

Read and answer the question.

Nina has 8 / 9 of her pizza and she gave 1 / 4 to her brother. How much pizza does she have

if after her brother, her mum asked for 1 / 3?

							0



In order to subtract, you need to make the fractions equivalent. Go back to page 40 and check the process for making fractions equivalent.

Look at the addition word problems on page 41 and the subtraction problem you just did. Identify the words that indicate you have to add or subtract and write them in the boxes below.







Word problems

Read and answer the questions.

1. Fred runs 11 / 9 and Tina runs 9 / 11. Who is closer to the end if the race is 3 km long?



2. Karla has sold 7 / 9 of the bunch of brownies she made, but her friend Gina has sold 5 / 7

of her set. Who has sold the most?

 		1	1	1	1		1			1	

3. Ben filled the tank of his car 7/12 and he drove 5km. How much gasoline was left in the tank if the car uses 2/20 per kilometre?





4. Diana bought 12 / 7 kilograms of potatoes. For her meal, she used 6 / 4. How much does she have left?







Look and write the missing numbers. Make the fractions equivalent.







Mixed numbers

Read and complete. Then write.

Sam is selling cakes. Each cake has 5 slices. She has 13 slices of chocolate cake and 17 slices of blueberry cake.

Each slice costs \$12, How much can she earn if she sells three cakes?

13	3 slices =	2	17 slic	ces =	3	
Ans	swer:				Ŭ, C	
Rea	d and comp	olete.				
	below	were	next to	with	into	more
In t	he example	, th	e number	the		
frac	ction means	"a whole.'	' Sam had 2 co	omplete		
cho	ocolate cake	es and 3 $_$	slices. Th	e same		
hap	opened	the blu	eberry cake; th	nere	Passing	
	3 comp	lete cakes	and 2 extra sli	ces.		11313
To	change mixe	ed numbe	ersimpro	per		
frac	ctions, you he	ave to:				
1.	Multiply the	whole by	the denominat	or.	$2\frac{3}{5}$	2 X 5 = 10
2.	Add the res	ult and the	e numerator.			10 + 3 = 13
3.	Write the res	sult as the	new numerato	r and use		13
	the same d	lenominat	or.			5





Change the mixed numbers to improper fractions and solve the additions.



Word problems

Read and answer the questions.

- 1. Steve bought 1 litre and a half of milk for dinner, 2
- $\frac{1}{2}$ litres of juice and $\frac{3}{4}$ of a litre of cream.

How many litres did he buy in total?









Analyse the previous word problem and complete.

The book equals to a whole number. To know how much she has read, you need to add.

Then you need to take away the result from a whole. Since you are using 8 as denominator, you will make the whole based on that number.





To subtract fractions with unlike denominators, you have to change to equivalent fractions the same way you did it with the adding process." Change the mixed numbers to improper fractions. Then to equivalent fractions, subtract and finally simplify, if possible.





Look and find 4 chains of equivalent fractions. There is one example.

Example	5 = 10 6 = 12	= 20 24		
20 	1 2	4 8	9 15	16 32
4 20	12 16	3 18	10 15	8 20
2 3	12 60	5 12	36 180	25 60
40 60	4 24		10	12 20
4 6	3 12	20 30	125 300	6 18



Area of triangles and parallelograms





Since the area of a parallelogram is **base X height**, the area of a triangle should be one half the area of a parallelogram (as we saw in the previous picture). Then the formula to calculate the area of a triangle is **base X height**, **divided by two**.

The area of any shape is expressed in Square units. Examples: m², cm², mm², etc.









UNIT 4 Time, temperature and speed



Read and answer the question.

A concert starts at 6:40 pm and, after an hour, there was a 30-minute break. Then another hour and a half.



It's ten to ... 11 12 1 2 It's ten past ... It's (a) quarter to ... 9 4 It's ten past ... It's twenty to ... 8 7 6 5 It's twenty-five to ... It's twenty past ... It's half past ...

2:00 - It's two

- 2:05 It's five two.
- 2:10 It's ten two.
- 2:15 It's quarter two.
- 2:20 It's twenty two.
- 2:25 It's twenty-five two.

- 2:30 It's half two.
- 2:35 It's twenty-five three.
- 2:40 It's twenty three.
- 2:45 It's quarter three.
- 2:50 It's ten three.
- 2:55 It's five three.



We use **at + time** when

giving the time of a specific event.

We use **It is** or **It's** to answer a question that asks for the time right now.

- 1. The class startsnine o'clock.
- 2. What's the time? It'..... twenty to five.
- 3. The flight leaves ten to three.
- 4. What time is it? It half past four.





N.	Numbers	Words	
1.	;		
2.	:		
3.	:		
4.	:		
5.	:		
6.	:		
7.	:		
8.	:		
_			
Rea	d and ansv	ver the questions.	
1. WI	hat time is this	?	
a)	55 minutes I	ater than 4:25 pm.	
b)	20 minutes e	earlier than 7:30 am.	
C)	2 hours and	15 minutes later than 5:30 am.	
-,			
d)	1 hour and	45 minutes later than 9:15 pm.	
2.	at 4 o'clock	at what time does she leave home?	
3.	A flight from	Cancun to Mexico City takes 1 hour and 15	
	minutes. The	e 3:30 pm flight is delayed by 40 minutes.	
	What time w	/ill it land in Mexico City?	





Temperature

Read and answer the question.

In the morning, the temperature is 12°C. At noon, the

temperature increases 10°. Finally, at night, the

temperature decreases 5°.

What was the final temperature that day?

Temperature means measuring **how hot** or **cold**

something is.

It is often measured using a thermometer. The unit of

measurement is degrees Celsius - °C or Fahrenheit - °F

Look and write the temperature of each thermometer in Celsius and Fahrenheit degrees





3...../....



Look and answer the questions.





Speed shows how fast someone or something moves. It is difficult for someone or something to keep the same speed all the time, so the AVERAGE SPEED must be used, instead.

To calculate the average speed, you need to divide the total distance travelled by the total time taken.

"We know that Joe goes 45 kilometres in 30 minutes. That means Joe has gone 90 kilometres in 1 hour. If we multiply 90 kilometres times 5 hours, it equals 450 kilometres."



Look and complete the chart.

N.	Total distance travelled	Total time taken	Average speed
1	200 km	4 h	
2	850 km	15 h	
3	420 km		80 km / h
4	•	5 h	120 km / h
5	130 km		26 km / h

Read and answer the questions.

 Gina drives 120 kilometres and the trip takes 2 hours. What is Gina's average speed?
A plane files for 8 hours. The average speed is 500 km / h. What is the total distance?
Fred runs 5.30 kilometres. If he runs 1.2 km / h, what is the total time taken?
A car goes 85 kilometres in 4 hours. A train goes 120 kilometres in 3 hours.

Which vehicle goes faster?







Look and answer the questions.

	Bus A	Bus B	Bus C	Bus D
School	8:15 am	9:35 am	11:05 am	1: <u>55</u> pm
Shopping Centre	8:35 am	9:50 am	11:30 am	2:15 pm
Downtown	8:45 am	10:00 am	11:40 am	2:35 pm
Airport	9:10 am	10:30 am	12:05 pm	2:45 pm

- 1. Which is the fastest bus from school to the shopping centre?
- 2. Which bus takes one hour from school to the airport?
- 3. Which bus is the slowest from downtown to the airport?

Look and answer the questions.

		A	verage	atures	in Egy	pt					
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
19°C	20°C	23°C	28°C	32°C	34°C	35°C	34°C	33°C	30°C	25°C	20°C

- a) Which is the hottest month?
- b) Which month is the coldest, September, October or November?
- c) Number the months in order of temperature, starting with the coldest.

Read and answer the questions.

The table below shows the distance covered by 4 cars in 2 hours.

Car	Distance	Which car is the fastest?	
red	30 km	Which car is the slowest?	
blue	25 km		
yellow	45 km		any >
orange	46 km		
		(





.....



50 cm

Volume of cuboids



Look and read. Then answer the question.

How much water does Dan need to fill this tank?

60 cm

30 cm

Explain what you did to find the answer:

Read and try the experiment.

VOLUME

It is the amount of space that something occupies.

CAPACITY

It is the amount of something that can be held.

To understand the relation between these concepts, try the next experiment.

Instructions:

- 1. Take a cuboid-shaped container and measure it with a ruler.
- 2. Follow the formula to get the volume.
- 3. Fill it with water little by little and see how much water it can hold.
- 4. Use the following information to compare the volume and the capacity of the container.
- $1 \text{ litre} = 1 000 \text{ cm}^3$

Formula

Length x width x height = volume of a cuboid Report your findings:





Calculate the volume of these cuboids.







Complete the number grid by finding the volume of each shape.







Probability



Read and answer the questions. A box contains 5 blue balls, 3 red balls and 8 yellow balls. The teacher asks Lilly to close her eyes and take a red ball from the box.

What is the probability that Lily picks a red ball? Explain what you did to find the answer:

Read and complete.

How many balls are there in total? Since there are 16 balls, there are 16 possible outcomes. But, since there are only ____ red balls, the probability to get one is 3 out of ____. This is how it is written: P(red) = 3/16

PROBABILITY

It means "**Several different outcomes are possible**." The probability of any specific outcome is a fraction of all possible outcomes.

THE FORMULA

Number of outcomes classified as A

Probability of A =

Total number of possible outcomes





.

.

.

Look and write.

Paula rolls a dice. What is the probability that Paula rolls and even number?



How many possible outcomes are there? How many even numbers are there? P (even) =

What is the probability that Paula rolls a number smaller than 5?

Look at the roulette.



What is the probability of getting a yellow outcome? What is the probability of getting a red outcome?

Look at the set of cards from a bingo game.

What is the probability of showing a bear card? What is the probability of having a reptile card? What is the probability of getting a grey animal card? If we want to pick a bird, what is the number of desired outcomes?





Probability line

Read and complete.





Read and write.

Instructions:

- 1. Get into pairs.
- 2. Read the questions and talk to your friend. Then roll a dice.
- 3. Decide on what the correct answers are and write them.
- 4. Talk and invent three more questions.
- 5. Talk and answer the questions.
- 6. Find the probabilities of the questions on the probability line.









Proportional properties



What is proportionality? •

Proportionality is a relation between measurable quantities. Direct proportionality is a case of linear variations. The constant factor of proportionality can be used to express the relations between the magnitudes.

What does Directly Proportional mean?

It means "as one amount increases, the other amount increases at the same rate. This is the symbol for "Directly Proportional" \propto .

• Example:

You learn 8 words in an hour

The number of words you learn is **directly proportional** to how many hours you study.

The more hours you study, the more words you learn; is direct proportion.





Can you read this?

- If you study 2 hours, you learn
- If you study 4 hours, you learn
- If you study 6 hours, you learn
- If you study 9 hours, you learn

Constant Proportionality

It is the value that relates the two amounts:

You learn 8 words in an hour – so the constant of proportionality is 8 because:

Learning = 8×10^{10} x Study Hours

 $\mathbf{y} = \mathbf{k}\mathbf{x}$

Direct Proportionality

If a magnitude increases, so does the other one.

Magnitudos	Sodas	1	2	3	4	5
Magninuaes	Cost	10	20	30	40	50

Divide all the pairs of numbers to find out what the constant is.

10 =	20) =	30 =	40 =	50 =
1	2		3	4	5

• So the constant of direct proportionality is

Inversely Proportional

The more workers are in a construction, the fewer days it takes to have work done. The fewer workers are in a construction, the more days it takes to have work done.

Magnitudas	Workers	1	2	3	4
Wagninades	Days	60	30	20	15

Multiply all the pairs of numbers to find out what the constant is.

60 X	1	=	20) Х	3	=	
30 X	2	=	4	Х	15	=	

• So the constant of inverse proportionality is _







• The volume of water coming out a faucet is 3 litres per hour.

Liters		3		27			42				69		
Time		1 hou	1 hour		Х		Х				X		
So the cor				ly is						2			
• Clea	olem - In aning all	the rooms i	r tionali n a hote	ty el takes	; 60 da	ys to	1 ma	aid.					
Maids	1	2	3		4		20		30		25	X	
• So t 20 Maids _ (Use any o	he const	ant of invers irs of numb	e prop	ortiona	lity is 2 Da	ys				_ ·			
20 .	X =	2	50		x		2	=	4	X	15		
X =	2 . 20	30			X	=	4	2	15				
X =	= 20				x	=	 2	=					
	Maids						. Day	'S					



Read and complete the tables.

The following table shows the number of boys and girls in different teams at the sports centre. Knowing that the numbers are in proportion, complete the table.

Number of boys	15		20	55
Number of girls		8		44

This table shows the eggs and flour needed to bake a vanilla cake. Knowing that the ingredients are in proportion, complete the table.

Number of eggs	3	9		33		39	
Flour (kg)	0.5		1		2		2.5

20

This table shows the kilometres Josh ran last week.

Knowing that he runs in the same pace, complete

the table.

Kilometres	7	6		15		3	
Time (minutes)		39	65		26		71.5


