







MATH - ENGLISH A Four-Week Recovery Program in Schools GRADE 6 2021-2022











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مقدّمة عامّة:

إنّ العودة إلى المدارس هذه السّنة وبعد غياب سنتين، بسبب جائحة كورونا من جهة، والأزمات الّتي تعصفُ بلبنان من جهة أخرى، تطرح تحدّيات كثيرة أمام نظام التّعليم بأكمله من الجهاز الإداريّ والتّعليميّ إلى الأهل وصولًا إلى المتعلّمين أنفسهم، الّذين كانوا أكثرَ الم تضرّرين من البقاء ولفترة طويلة في البيوت، بعيدًا عن جوّ التّفاعل والتّواصل الاجتماعيّ الّذي توفّره بيئة المدرسة، وفي ظلّ غياب فرص تعلّم عادلة فرضتها العوائق اللّوجستيّة والاقتصاديّة وغيرها.

من هنا، كان لا بد من إيلاء مسألة العودة إلى المدرسة هذه السنة اهتمامًا شديدًا من قبل المعنيين، وبخاصة عودة المتعلّمين الصّغار من أطفال الحلقة الأولى الّذين يدخل عدد وفير منهم المدرسة لأوّل مرّة، ما يستدعي وضع خطّة مدروسة، تراعي الجوانب النّفسية والاجتماعية والأكاديمية لهم، فتعمل على معالجة الثّغرات في المكتسبات والمهارات بدءًا من الأهداف الأساسية وكفايات مرحلة الروضات، إلى مساعدتهم على الانخراط سريعًا في جو المدرسة ونظامها، ودعمهم نفسيًا واجتماعيًا عبر أنشطة التّعبير الانفعالي الاجتماعي وغيرها من الأنشطة والألعاب لتسريع عملية التّأقلم والتّواصل.

مقدّمة مادّة الرياضيّات

رزمة التّقويم التّشخيصي والأنشطة

أعدّت هذه الرّزمة كوسيلة مساعدة للمتعلّمين والمعلّمين ليتمّ استخدامها خلال الاسابيع الاربعة الاولى للعام الدّراسيّ 2021-2022 من أجل ضمان بداية سلسة بعد انقطاع قسريّ دام لعامين دراسييّن ولكي تساعد على ردم هوّة الفاقد التّعليميّ.

تتألّف هذه الرّزمة من أربعة جزاء على الشّكل الآتي: أدوات للتّقويم التّشخيصيّ، أنشطة للمراجعة، ألعاب تربويّة، ومعينات. أدوات التّقويم التّشخيصيّ وأنشطة المراجعة مبنيّة على بعض المفاهيم الأساسيّة والمستمرّة المطلوبة في صفوف الحلقة الأولى والثّانية وهي مكوّنة من بنود تركّز على المهارات والمعارف والمواقف الأساسيّة/الأهداف الّتي يحدّدها المنهج والّتي يجب على المتعلّم(ة) أن يتقنها/تتقنها، ما يخوّل انتقاله(ا) السّلس من السّنة الدّراسيّة السّابقة إلى السّنة الحاليّة.

كل عنصر من عناصر التّقويم التّشخيصيّ يرتبط بنشاط (أنشطة) مراجعة للتّحقّق من اكتساب الهدف المقصود والمتعلّق بمفهوم محدّد وإرسائه في حال عدم تحققّه قبل بداية العام الدّراسيّ.

طريقة التّنفيذ:

- يبدأ المعلّم بتمرير أداة التّقويم التّشخيصي في اليوم الأوّل من الأسبوع الأوّل ويحرص على تنفيذها من قبل كل المتعلّمين ومن دون أن يتدخّل ثم يقيّم المعلّم النّتاجات ليكوّن فكرة حول كل متعلّم وحاجاته مع الحرص على عدم إجهار النّتيجة بل الاحتفاظ بها لمساعدته في الخطوات اللّاحقة.
- عرر المعلم أنشطة المراجعة بعد نشاط التّقويم التّشخيصي للأسبوع الأول على كل المتعلّمين كي تعم الفائدة ويقوم بالتركيز بشكل تمايزي على حاجات المتعلّمين التي استخرجها من نشاط التّقويم. ومن أجل تعزيز ومعالجة المفاهيم المقصودة في الأنشطة يستحسن استخدام طرق التّعليم / التعلّم النّاشط.
 - تعاد العمليّات السّابقة على الأسبوع الثّاني، والثّالث، والرّابع.
 - مكن استثمار الالعاب التّربوية مع من ينجز أعماله باكرًا لكي يتسنّى للمتعلّمين بكافة مستوياتهم الاستفادة من الوقت.
 - يمكن استثمار المعينات من قبل المتعلّمين وبتوجيه من المعلّم حيث تدعو الحاجة.

Week 1

NATURAL NUMBERS

Numbers greater than 100 000 - Four operations - Multiples - Divisors

Diagnostic Assessment

Learning Activities

Week 2

DECIMAL NUMBERS

Place value - Addition - Subtraction - Multiplication

Diagnostic Assessment

Learning Activities

Week 3

FRACTIONS

Decimal Fractions - Addition - Subtraction

Diagnostic Assessment

Learning Activities

Week 4

GEOMETRY

Lines - Circles

Diagnostic Assessment

Learning Activities

Games for Fun

Material to be used

MATH - ENGLISH Diagnostic Assessment CYCLE 2 - GRADE 6 Week 1

Check your knowledge (Natural Numbers)

Two million four hundred thirteen thousand eight _____

Thirty-two million, four hundred seven _____

2 000 000 + 80 000 + 5 000 + 400 + 7 _____

42 million, 8 thousand, 412 _____

2- Perform the following operations. Show your work.

$$8547 \times 24 =$$

$$62375 \div 25 =$$

		_	dist of numbers: 6, 8, 15, 18, 22, 25, 28, 35, 42 above, which ones are multiples of 5?
Ar	nong the	numbers liste	ed above, which ones are multiples of 6?
Ar	nong the	numbers liste	ed above, which ones are multiples of 7?
5-	List the	divisors of 24	4.
		the correct ar nultiple of 15	
b)	Which n	number is a m	oultiple of 7? 77
c)	48 and 5		utive multiples of 4
	0 ' 1'	visor of	

MATH - ENGLISH Learning Activities CYCLE 2 - GRADE 6 Week 1

Natural Numbers

40 784 205 022

c.

1- Choose the correct answer. What is the place value of 5 in 640 153? ten thousands b. tens hundreds d. hundred thousands c. What is the place value of 9 in 9 637? ones b. thousands a. hundreds d. c. tens What is the place value of 6 in 26 013 997? tens b. millions a. ten millions ten thousands d. c. What is the place value of 0 in 1 714 830? b. millions a. tens ten thousands d. c. ones What is the place value of 5 in 23 503 489? hundred thousands A. В. tens C. hundreds D. millions What is the place value of 4 in 52 579 471? hundreds b. a. tens thousands d. ten thousands c. Which of these numbers is forty billion seven hundred eighty-four million two hundred five thousand twenty-two? 40 784 205 220 4 784 205 022 b. a.

40 784 250 220

d.

a) 6 008 <u>2</u> 64		
b) 910 <u>6</u> 59 544		
c) 52 45 <u>6</u> 100		
d) <u>7</u> 75 342 198		
e) 4 9 <u>7</u> 6 008 264		
	occupy a big part of the globe. The following as. Write these areas in digits (standard form).	are the surface areas of four
Oceans and seas	Area in km ²	Area (in digits)
Oceans and seas Arctic ocean	Area in km ²	Area (in digits)
Oceans and seas Arctic ocean Atlantic ocean	Area in km ² 13 million 106 million	Area (in digits)
Arctic ocean	13 million	Area (in digits)
Arctic ocean Atlantic ocean	13 million 106 million	Area (in digits)
Arctic ocean Atlantic ocean Indian ocean	13 million 106 million 75 million	Area (in digits)
Arctic ocean Atlantic ocean Indian ocean Mediterranean sea	13 million 106 million 75 million 2 × 1 000 000 + 5 × 100 000	Area (in digits)
Arctic ocean Atlantic ocean Indian ocean Mediterranean sea Red sea	13 million 106 million 75 million $2 \times 1\ 000\ 000 + 5 \times 100\ 000$ $4 \times 100\ 000 + 3 \times 10\ 000 + 8 \times 1\ 000$	Area (in digits)

2- Write the value of underlined digit for each of the following numbers.

Billio	ons period		Million	s peri	od	Thousan	ds per	riod	Ones period			
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	
5	4	7	4	2	3	8	7	5	4	7	8	
5	4	7	3	2	3	8	7	5	4	7	9	

Complete by > or < 547 423 875 478 ... 547 323 875 479

Which place value helped you decide which is the bigger number?

5- Arrange the following numbers from greatest to least.

971 643 961

971 643 951

971 634 961

971 643 999

6- Perform the following operations. Show your work.

$$2856 \times 24 =$$

$$609 \times 760 =$$

$$38\,456 \div 8 =$$

$$78569 \div 84 =$$

7- List the first 12 multiples of

2:_____

3:

6:

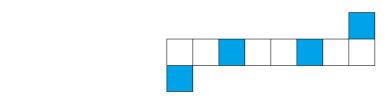
List the common multiples of 2 and 3 that are less than 31.

8-	Insert each of the following numbers between two consecutive multiples of 5.
	<pre></pre>
	< 124 <
9-	I am a common multiple of 5 and 7 between 60 and 80. Who am I?
10-	List the factors (divisors) of
12:	
11-	Which number is a divisor of all numbers?

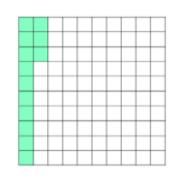
MATH - ENGLISH Diagnostic Assessment CYCLE 2 - GRADE 6 Week 2

Check your knowledge (Decimal Numbers)

1- What is the decimal number that represents the colored part of each figure?







2- Write in the form of a decimal number.

$$\frac{3}{10} = \dots$$

$$\frac{4}{10} = \cdots$$

$$\frac{456}{100} = \cdots$$

45 and
$$\frac{7}{10} = \cdots$$

$$\frac{675}{10\ 000} = \cdots$$

Sixteen and eight tenths = \cdots

- 3- What is the standard form of seven and six hundredths? Circle it.
 - 7.6
- 7.60
- 7.06
- 0.76
- 4- Perform the following operations. Show your work.

85.12 + 4.65 =

25.8 - 7.98 =

 $28.56 \times 100 =$

 $60.9 \times 3.9 =$

5- Compare.

27.5 _____ 15.87

31.8 _____ 3.18

16.05 _____ 6.99

14.98 _____ 28

6- Arrange the following decimals in decreasing order.

25.8

16.27

8.99

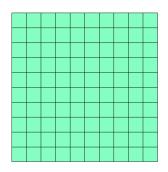
34.2

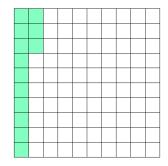
25.08

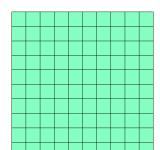
MATH - ENGLISH Learning Activities CYCLE 2 - GRADE 6 Week 2

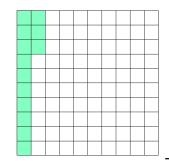
Decimal Numbers

1- Each hundred square represents one whole. What decimal is represented in each example?









2- Write the following in decimal form.

- a) $\frac{7}{10} = \cdots$
- b) $\frac{8}{100} = \cdots$
- c) $1 + \frac{5}{10} = \cdots$
- d) $3 + \frac{6}{10} + \frac{5}{100} = \cdots$
- e) $7 + \frac{9}{100} + \frac{4}{1000} = \cdots$
- f) $\frac{2}{10} + \frac{5}{100} + \frac{9}{10000} = \cdots$
- g) Thirteen and eight hundredths =
- h) $300 + 10 + 0.05 = \dots$

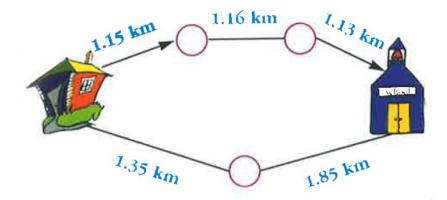
3- Perform the following operations. Show your work.

$$28.56 \times 14 =$$

$$258 \times 3.9 =$$

4- Complete with an appropriate number.

5- Which path is the shortest to take from home to school?

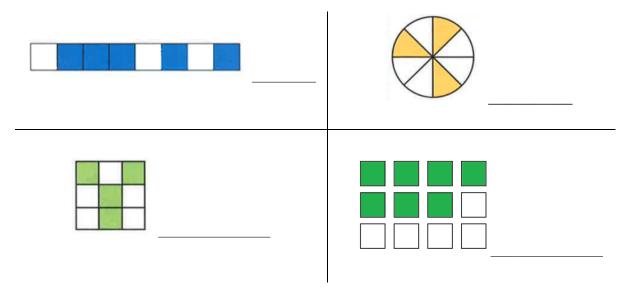


MATH - ENGLISH Diagnostic Assessment CYCLE 2 - GRADE 6

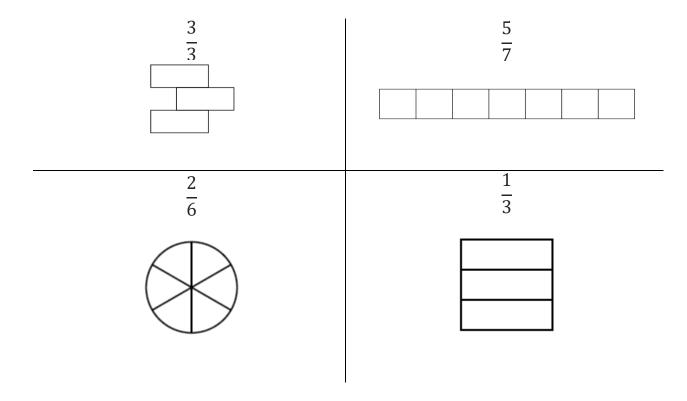
Week 3

Check your knowledge (Fractions)

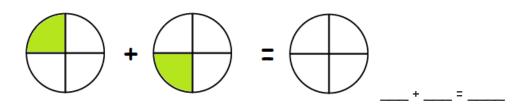
1- Write the fraction that represents the colored part of each drawing.

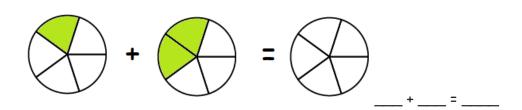


2- Shade the part represented by each fraction.



3- Shade in the fraction and complete the addition.





4- Perform.

$$\frac{7}{12} + \frac{4}{12} = \dots$$

$$\frac{6}{15} - \frac{2}{15} = \dots$$

$$\frac{2}{3} - \frac{1}{6} = \dots$$

$$\frac{4}{5} - \frac{2}{10} = \dots$$

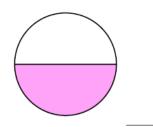
$$\frac{2}{3}$$
 of 60 =...

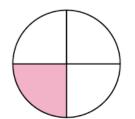
$$\frac{1}{4}$$
 of 32 =...

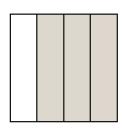
MATH - ENGLISH Learning Activities CYCLE 2 - GRADE 6 Week 3

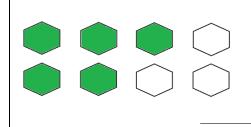
Fractions

1- Write the fraction that represents the shaded part.







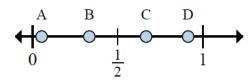


2- Express the stars as a fraction of the entire set in each case.

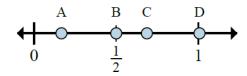




3- Determine which letter better shows the location of the fraction in each case.



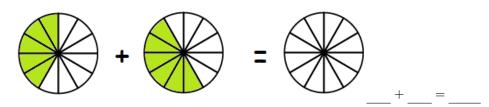
Which letter better shows $\frac{2}{3}$? _____



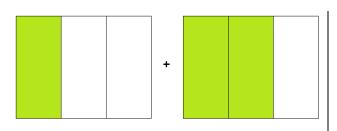
Which letter better shows $\frac{1}{6}$? _____

4- Shade in the fraction and complete the addition.

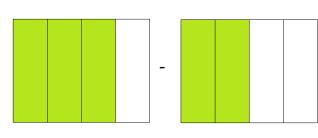




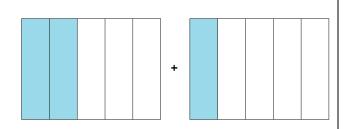
5- Use the visuals to give answers to the additions and the subtractions below.



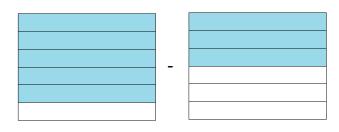
$$\frac{1}{3} + \frac{2}{3} = \cdots$$



$$\frac{3}{4} - \frac{2}{4} = \cdots$$



$$\frac{2}{5} + \frac{1}{5} = \cdots$$



$$\frac{5}{6} - \frac{3}{6} = \cdots$$

6- Complete.

$$\frac{1}{2} + \frac{5}{6} = \frac{\dots}{6} + \frac{5}{6} = \frac{\dots}{\dots}$$

$$\frac{8}{9} - \frac{1}{3} = \frac{8}{9} - \frac{\dots}{9} = \frac{\dots}{\dots}$$

$$\frac{3}{5} + \frac{1}{4} = \frac{\dots}{20} + \frac{\dots}{20} = \frac{\dots}{\dots}$$

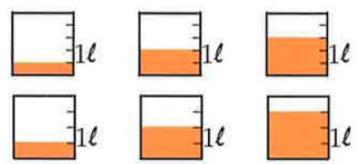
$$\frac{6}{7} - \frac{3}{4} = \frac{\dots}{28} - \frac{\dots}{\dots} = \frac{\dots}{\dots}$$

$$\frac{2}{3} + \frac{7}{5} = \frac{\dots}{\dots} + \frac{\dots}{\dots} = \frac{\dots}{\dots}$$

7- My mother divides a pizza into 8 equal parts.
 Rima eats one, Fadi and my mother eat two parts each.
 My father plans to eat ³/₈ of the pizza.
 Is that possible? Justify your answer.



8- Samira pours in the same container the contents of the glasses below.

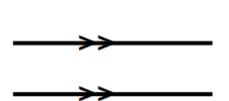


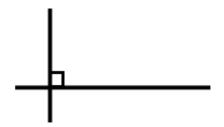
Find the quantity of the obtained liquid in liters.

MATH - ENGLISH Diagnostic Assessment CYCLE 2 - GRADE 6 Week 4

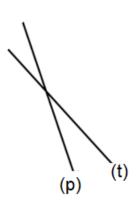
Check your knowledge (Geometry)

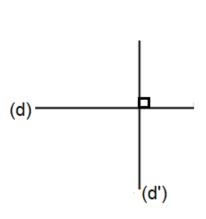
- 1- Circle the correct answer.
- a) Which pair of straight lines are perpendicular?

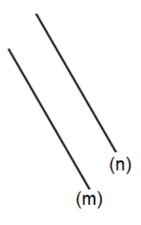




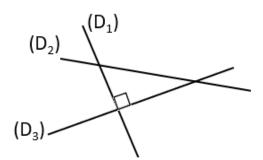
b) Which pair of straight lines are parallel?







c) Which pair of straight lines are perpendicular?

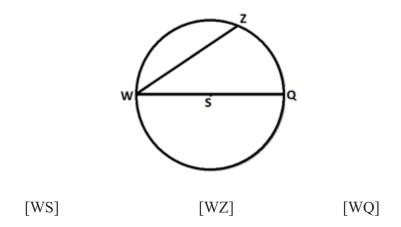


 (D_1) and (D_2)

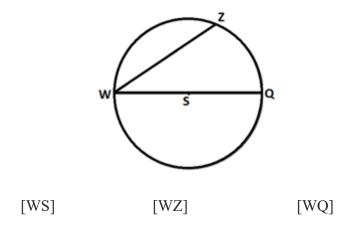
(D₃) and (D₂)

 (D_1) and (D_3)

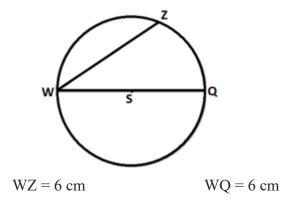
d) Which segment is a radius of the circle?



e) Which segment is a diameter of the circle?



f) The radius of the circle is 3 cm. Which statement is correct?



WS = 6 cm

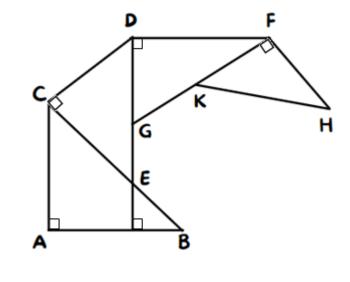
2- Use your ruler and set square and draw 2 parallel straight lines.
2 Obe your raier and bet square and draw 2 paramet straight lines.
3- Use your ruler and set square and draw 2 perpendicular straight lines.

MATH - ENGLISH Learning Activities CYCLE 2 - GRADE 6 Week 4

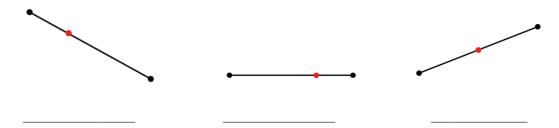
Geometry

1- Which segments are held by perpendicular straight lines?

Which segments are held by parallel straight lines?



2- Is the red point the midpoint of the segment? Write yes or no.



3-	From the list of propositions below, underline the ones that	t ar	e true for any rectangle.	
	Sides [AB] and [CD] are parallel.	Α	T B	}
	Sides [BC] and [AD] are parallel.			
	Sides [AB] and [BC] are perpendicular.			
	[AB] and [CD] have the same length.	D		
	[AB] and [BC] have the same length.			

• O

4- Use your compass and draw a circle of center O and radius 3 cm.

- 5- Use your ruler and set square to:
- a) Draw a straight line (d) parallel to the given straight line.
- b) Draw a straight line (m) perpendicular to the given straight line.

MATH - ENGLISH Games For Fun CYCLE 2 - GRADE 6

Activity: Cross Number Puzzle

Complete the following cross number puzzle.

1	2			3	4	5	6
7			8				
9			10	11.			
		12					
	13						
14						15	
					16		
17					18		

Across

1)
$$300 - 15$$

3)
$$10000 - 426$$

7)
$$4 \times (7 + 1111)$$

9)
$$(2 \times 22) - 5$$

10)
$$(3 \times 3600 \times 4) - 3$$

12)
$$18 \times 4 \times 9$$

13)
$$126\ 200 \div 10$$

14)
$$17 \times 30$$

15)
$$290 \div 10$$

16)
$$401 \times 2$$

17)
$$100 \times 76$$

18)
$$230 \div 2$$

Down

1)
$$9 \times 271$$

$$2) 800 + 49$$

4)
$$(5 \times 125) - 44$$

6)
$$(489 \times 25) \div 3$$

8)
$$(3 \times 700) + 346$$

11)
$$1274 \times 3$$

12)
$$62 \times 1000$$

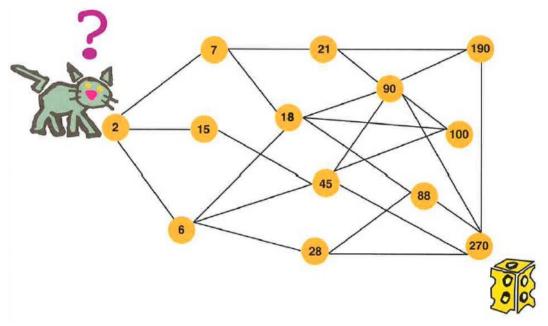
$$14) 27 + 500$$

15)
$$3 \times 67$$

16)
$$243 \div 3$$

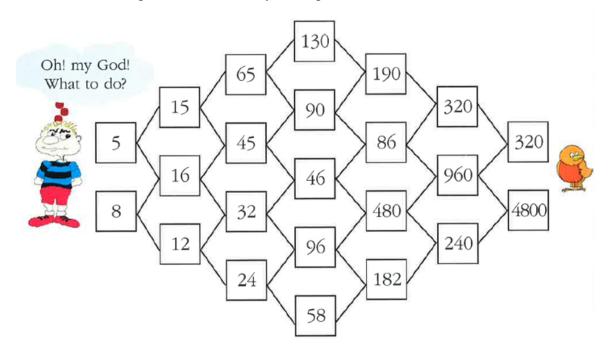
Activity: Help the cat reach the piece of cheese

The correct path consists in jumping from a number to a multiple of that number. If not, the cat will fall in the trap. Draw the path to be taken by the cat to reach the cheese.



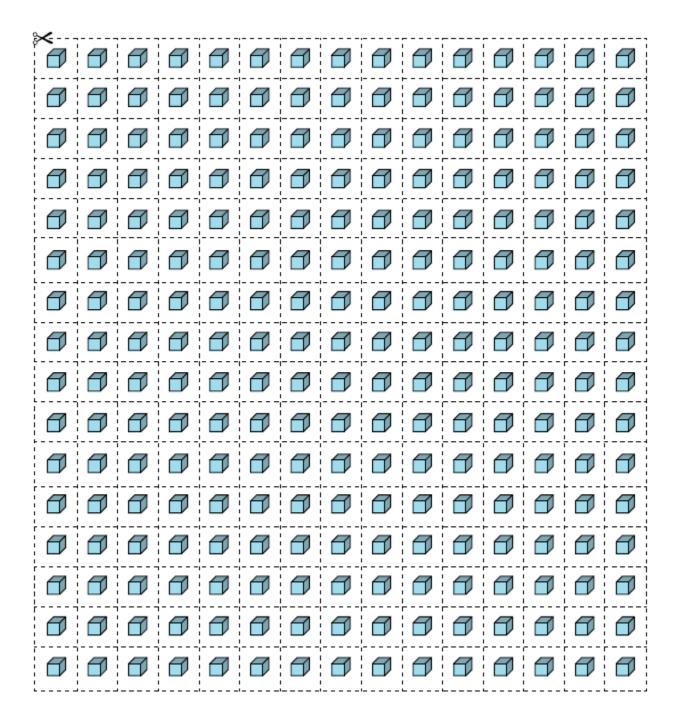
Activity: Help Finfin meet his pet Bilou

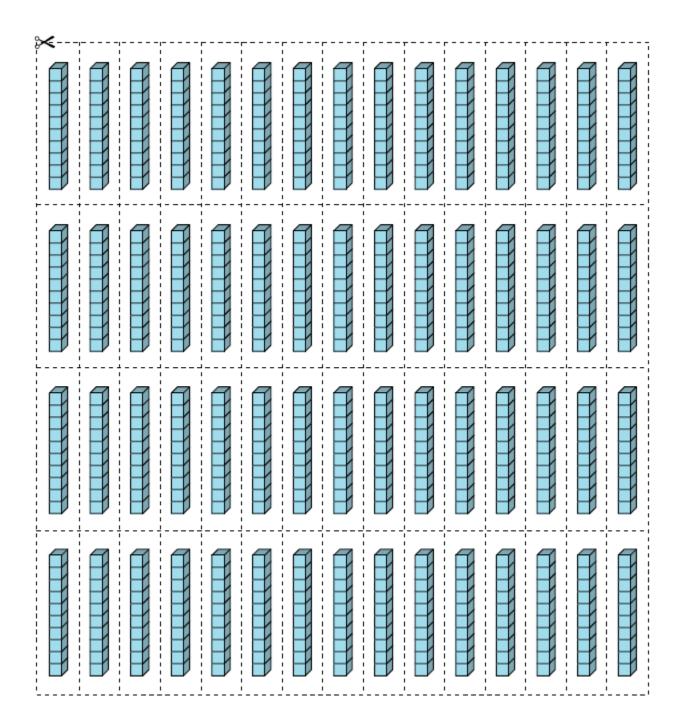
Two numbers can be joined only if one of them is the divisor of the other. Connect the numbers to help Finfin find his way to his pet Bilou.

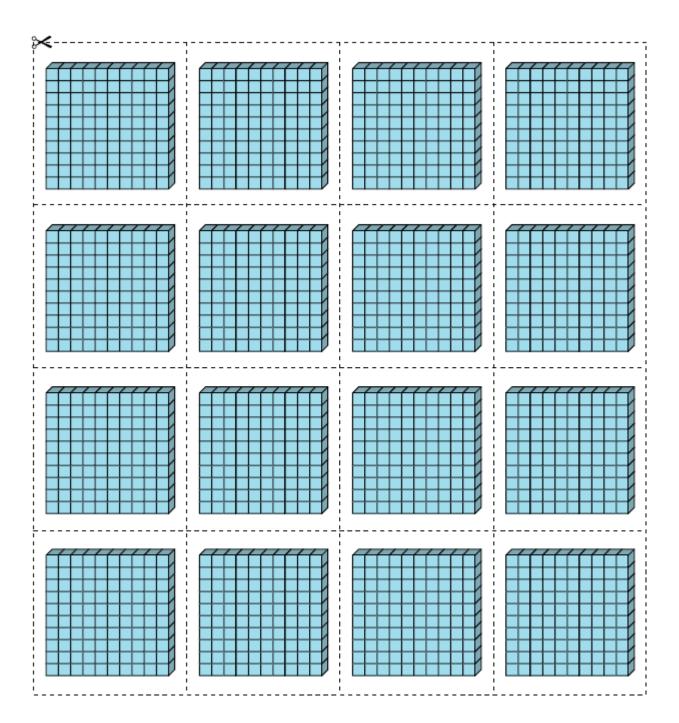


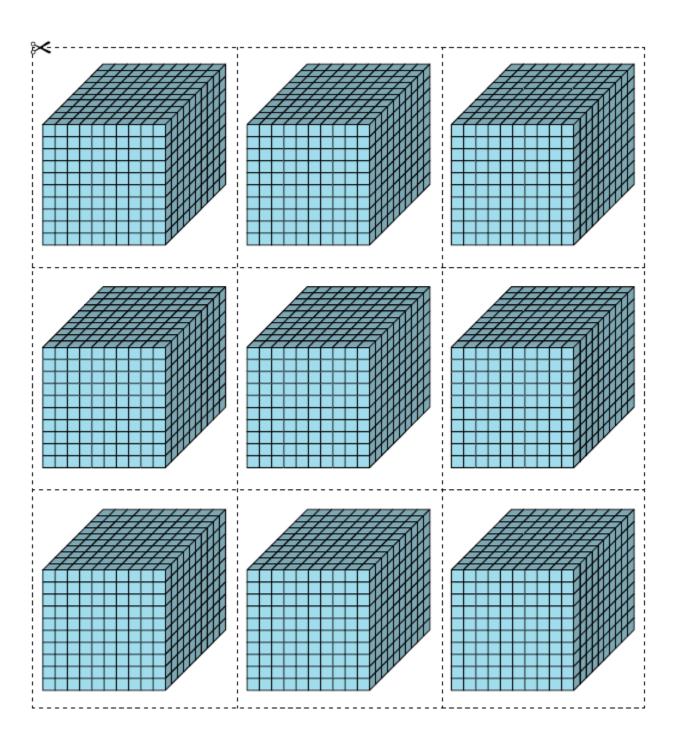
MATH - ENGLISH Material to be used CYCLE 2 - GRADE 6

Thousands blocks, Hundreds flats, Tens rods and Ones cubes









Fractions

	1			1			1		1				
1/3	1/3	1/3	1/3	1 3	1/3	1/3	1/3	1/3	1 3	1/3	1/3		

1						1					1						1					1							
1 6	1 6	1 6	1 6	1 6	<u>1</u>	1/6	1 6	<u>1</u>	1 6	$\frac{1}{6}$	1 6	<u>1</u>	<u>1</u> 6	<u>1</u>	<u>1</u>	1 6	1/6	$\frac{1}{6}$	1 6	<u>1</u>	1 6	1 6	<u>1</u>	<u>1</u>	1/6	1/6	1/6	$\frac{1}{6}$	$\frac{1}{6}$

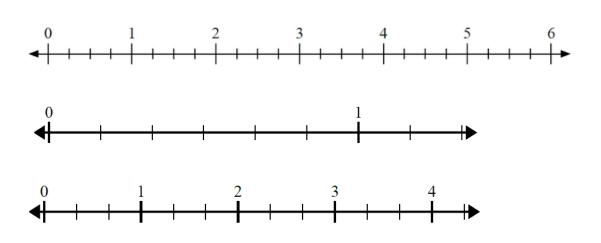
	1														
- - -	<u>1</u> 4		<u>1</u> 1	- - -	<u>1</u> 1	<u>1</u> 4									
<u>1</u> 8															

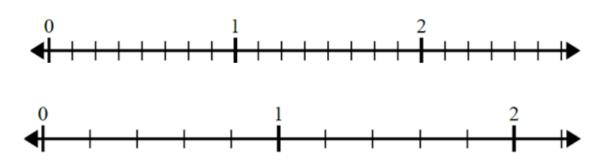
	1														
	1	- "	1 5	. "	1 5	- 1	1	<u>1</u> 5							
1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10	1 10						

	1									1																	
		-	<u>1</u> 2				1 2					$\frac{1}{2}$ $\frac{1}{2}$						1/2					1 2				
	1 4			1 4			1 4			1 4			1 4			1 4			1 4		1/4						
1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12				

		•	1		
	1 3	, J.,	<u>1</u> 3	, J.,	<u>1</u> 3
<u>1</u> 6	<u>1</u> 6	1 6	1 6	<u>1</u> 6	<u>1</u> 6

	1										1												
		-	<u>1</u> 2					-	<u>1</u>					-	<u>1</u>					-	1_2		
	1/4			1 4			1 4			1 4			<u>1</u>			<u>1</u>			1 4		1/4		
1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12	1 12

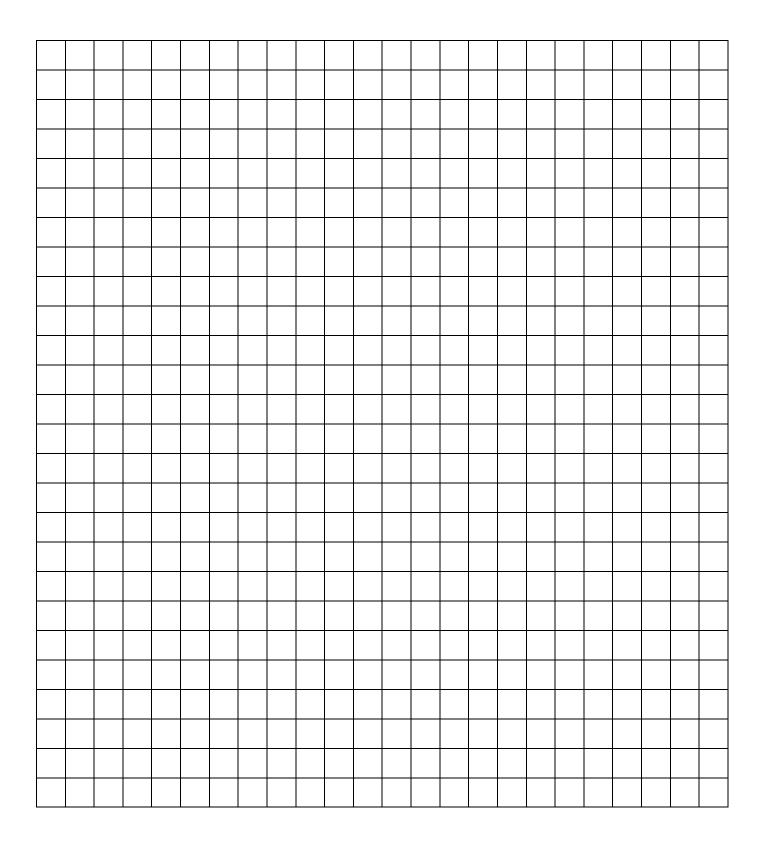




Numbers up to 100 (Multiples and divisors)

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

Grid











THANK YOU

USAID-funded program, managed by World Learning Inc. Quality Instruction Towards Access and Basic Education Improvement (QITABI 2): 2nd floor, Azar Building (ID Design bldg), Sin El Fil, Lebanon, Tel: +961-1-511552/3





