unit Tests: Workbook 4

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JUMP Math

Toronto, Ontario www.jumpmath.org

Ρ	Patterns & Algebra	Name:
Uı	Unit Test	Date:
<u>Se</u>	Section A	
1.	1. Fill in the missing numbers:	
	a) is 3 more than 5 b) 13 is more	than 7 c) is 9 less than 14
2.	 Find the gap and then extend the patterns: NOTE: You should always check that the gap is the same between 	en each pair of numbers!
	a) $2, 5, 8, 2, 5, 8, 2, 3, 3, 5, 8, 2, 3, 5, 8, 5, 5, 8, 5, 5, 8, 5, 5, 8, 5, 5, 5, 8, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,$	$\bigcirc 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0$
3.	3. State the rule for the following patterns:	
	a) 65, 75, 85, 95, 105 add b)	39, 33, 27, 21, 15 subtract
	c) 200, 191, 182, 173, 164 d)	55, 66, 77, 88, 99
	Start atand	
4.	4. Create a pattern of your own. Then give the rule you use	ed.
	My pattern: , , , , , My ı	rule:
5.	5. Josephine reads 7 pages of her book each night. Last ni	ght she was on page 64. What page will she

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6.

3, 9, 14, 20...

Philip says the above pattern was made by adding 6 each time. Is he correct? Explain:

reach tonight? And tomorrow night?

Unit Tests – Workbook 4, Part I

Ρ	atterns & Algebra	Name:
Uı	nit Test	Date:
<u>Se</u>	ection B	
7.	Circle the core of the following patterns:	
	a)	b) 3 1 5 3 1 5 3 1 5 3 1 5
	c) C D B D C D B D C D B D	$^{d)} \bigoplus \bigcirc \oslash \bigcirc \bigcirc$
	e) 2 2 5 5 2 2 5 5 2 2 5 5	f) Y R R Y R R Y R R
8.	Circle the core of the pattern. Then continue the pa	attern:
	a)	
	b) A C E A C E A	
	c) 1 8 7 4 1 8 7 4	
	d) R B B R R B B R	
9.	Write the one attribute that changes in each patter	ern:
	a) B G B G	b) R R R R R
10	Write the two or three attributes that change in eac	
10	a) B B Y Y	b) \mathbf{Y} \mathbf{R} \mathbf{Y} \mathbf{R} \mathbf{Y}
	c) RYRY	

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- 3 -

Name: _____

Unit Test

Date:

Section C

11. Extend the following number patterns:

a)	Figure	Number of Blocks	b)	Figure	Number of Blocks	c)	Figure	Number of Blocks
	1	3	\square	1	2	\square	1	5
	2	6	\bowtie	2	8	\bowtie	2	9
	3	9	\bowtie	3	14	\bowtie	3	13
			\bowtie			\bowtie		
			\bowtie			\bowtie		
			\bigvee			\bigvee		

d) How many blocks would be in Figure 7 of part a) above? Explain how you know:

12. Complete each T-table to find the amount of money Daniella would make in 4 hours:

b)

a)	Hours Worked	Dollars Earned in an Hour
	1	\$11

Hours Worked	Dollars Earned in an Hour
1	\$15

Hours Worked	Dollars Earned in an Hour
1	\$17

13. Create a T-table to solve the following problem.

On Day 1, Remi planted 12 plants in his garden. Each day after that, he planted 7 plants. How many plants did Remi plant by the end of Day 4?

C)

Date:

Name: _____

14. Christian starts work on Thursday morning. He mows 7 lawns each day. How many lawns has he mowed by Sunday evening?

15. Jake has \$56 in his savings account in the end of April. He spends \$6 every month after that. How much does he have in the end of July?

Month	Savings
April	\$56



Clare makes an ornament using 1 rectangle and 3 triangles. She has 6 rectangles. How many triangles will she need if she plans to use all 6 rectangles?

Unit Test: Patterns & Algebra – Workbook 4, Part I

<u>Secti</u>	on A		Sect	tion B		<u>Sect</u>	ion C		
1.	a)	8	7.	a)		11.	a)	Gap =	= + 3;
	b)	6						4	12
	c)	5		b)	3 1 5			5	15
2.	a)	Gap = + 3;		C)	СDВD			6	18
		11, 14, 17		d)	\odot		b)	Gap =	= + 6;
	b)	Gap = - 2;		0)	2 2 5 5			4	10
	2)	15, 15, 11		e) f				5	26
	0)	0ap – + 4, 12, 16, 20		1)	YRR			6	32
	d)	Gap = - 5; 31_26_21	8.	a)	Core = $\Box \bigtriangleup \Box$;		c)	Gap =	= + 4;
3	a)	Add 10						4	17
0.	b)	Subtract 6		b)	Core = A C E;			5	21
	c)	Start at 200 and			CEACE			6	25
	0)	subtract 9		C)	Core = 1 8 7 4;		d)	Figur	e 7 would
	d)	Start at 55 and			187418			conti	rue to add 3
		add 11		d)	7 4			block	s.
4.	Answe	ers will vary.		u)		12.	a)	2	\$22
5.	Tonigh	nt: pg. 71			repeats 3 more			3	\$33
	Tomo	rrow Night: pg. 78			times.			4	\$44
6.	No, Pl	hilip is not correct.	9.	a)	Colour		b)	2	\$30
	and 14	4 & 20 is 6. but the		b)	Size			3	\$45
	gap be	etween 9 & 14 is 5.	10.	a)	Colour, shape			4	\$60
				b)	Colour, shape		C)	2	\$34
				2)				3	\$51
				c) d)				4	\$60
				u)	C01001, SIZE	13.	By the Remi	e end o had 33	f Day 4, plants:
							Da	y	Plants
							1		12
							2		19
							3		26
							4		33

Section D								
14.	Christian has mowed							
	28 lawns by Sunday evening:							
	Day		# Lawns					
	Thursday	y	7					
	Friday		14					
	Saturday	/	21					
	Sunday		28					
15.	By the er has \$38:	٦d	of July, Jake					
	Month		# Savings					
	April		\$56					
	May		\$50					
	June		\$44					
	July		\$38					
16.	To use a Claire wi triangles	6 r :	6 rectangles, need 18					
	Rectangl	es	Triangles					
	1	3						
	2	6						
	3		9					
	4		12					
	5		15					
	6		18					



Answer Keys – Workbook 4 Unit Tests

- 1 -

Number Sense			Name:						
U	Jnit Test					Da	Date:		
Se	ection A								
1.	Beside eac	ch number, write th	e place valu	ue of the und	erlined digit:				
	a) 3 <u>8</u> 2		b) <u>7</u> 2	6		C)	9 45 <u>3</u>		J
	d) <u>3</u> 107		e) 2 <u>^</u>	<u>1</u> 68		f)	5 3 <u>8</u> 1)
2.	Write num	erals for the follow	ng number	words:					
	a) four hu	Indred twenty-six		b) one thousar	nd, si	x hundr	ed thirty-seven	
	c) eight tl	nousand, five hunc	Ired ten	d)) three thousa	and,	two hun	dred four	
3.	Write num	per words for the f	ollowing nur	nerals:					
	a) 562								
	b) 1319								
	c) 4308								
4.	For each q form (nume	uestion below, giv erals and words) fi	e the numbe rst:	er represente	d by the pictu	re. V	Vrite ead	ch number in expand	ed
	a)								

____ thousand + ____ hundreds + ____ tens + ____ ones =

b) ____ thousands + ____ hundreds + ____ tens + ____ ones =



Unit Test

Name:	

Date:

Section A (continued)

5. Write the numbers for the given base ten blocks:

	Thousands	Hundreds	Tens	Ones	Number
a)					
b)					

6. Represent the given numbers with the base ten blocks in the place value chart:

	Number	Thousands	Hundreds	Tens	Ones
a)	1 263				
b)	3 195				
c)	2 304				



NI.	umbor Sonso	3- Name [.]
Un	it Test	Date:
<u>Se</u>	ction A (continued)	
7.	Expand the following numbers using numerals ar	nd <u>words:</u>
	a) 5 276 = thousands + hundreds	+tens +ones
	b) 3 014 = thousands + hundreds	+ tens + ones
	c) 1938 =	
	d) 6460 =	
8.	Write the number in expanded form (using <u>nume</u>	rals only):
	a) 253 =	b) 2657 =
9.	Write the number in each box. Then circle the la Hint: If there is the same number of thousands, count the same number of the same number of thousands, count the same number of thousands, count the same number of thousands, count the same number of the same number	rger number in each pair: ne number of hundreds or tens.
	a) (i)	(ii)
	b) (i)	
10.	Circle the greater number in each pair:	
	a) 646 or 664 b) 327 or 237	c) 5688 or 5788 d) 3612 or 3610

11. List all the three-digit numbers you can make using the digits 4, 7 and 6. Circle the greatest number:



Unit Test

Name: _____

Date: _____

Section B

12. Complete the charts below by exchanging 10 tens for 1 hundred:

hundreds	tens
2	19

	hundreds	tens	
	3	11	

13.	Complete the charts below by exchanging	
	10 hundreds for 1 thousand:	

thousands	hundreds	thousands	hundreds
4	17	6	12

14. Exchange hundreds for thousands, or tens for hundreds:

a) 2 thousands + 13 hundreds + 4 tens + 6 ones = ____ thousands + ____ hundreds + ____ tens + ____ ones

- b) 4 thousands + 7 hundreds + 28 tens + 5 ones = _____
- 15. Add (regrouping where necessary):

c)		1	2		b)		F	1	7			7	2	F		d)		2	4	0	0		-)		F	0	2	1
a)		4	3	- 1	D)		5	1	1	C)		1	2	5	- 1	a)		2	4	9	0	e	e)		5	8	3	1
	+	2	9			+	1	9	2		+	6	8	3		-	+	1	3	5	3		_	+	2	1	7	6

16. Subtract (regrouping where necessary):

		_	<u> </u>				<u> </u>	1	<u> </u>			1	0				0	<u>т</u>	1		-		2	0	-	0
	_ 2	2	7		_	_	3	1	З		_	1	5	6		_	З	Δ	1	2		_	2	8	Δ	6
a)	5	5	4	b)		7	2	6	c)		9	2	1	d)		6	0	6	5	e)		9	5	7	2

a)

17. To answer these questions, you will have to regroup two or three times:

	1	0	0	b)		1
-		8	1		-	

0 0 0

3 4 7

18. Georgia earned \$2 418 during her summer vacation. Emma earned \$1 345. How much more money did Georgia earn than Emma?

Unit Test

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Date:

Name:

Section C

19. Draw two arrays for each of the following multiplication statements (or products):

a) 2×3	b) 3×5	c) 4 × 6

- 20. Draw an array to answer the following questions. Include a multiplication statement in your answer:
 - a) Jenny planted 5 seeds in each row. There are 7 rows of seeds. How many seeds did Jenny plant?
 - b) A room holds 8 tables. Each table seats 4 people. How many people can sit in the room at once?
- 21. Multiply by regrouping ones as tens or tens as hundreds:

a)				b)				c)				d)				e)			
	3	2	5		1	1	4		1	5	1		2	4	2		1	5	2
	×		3		×		5		×		5		×		3		×		3

- 22. Jacob multiplied two numbers. The product was one of the numbers. What was the other number? How do you know?
- 23. Florence multiplied 5 by some number. The product was zero. What number was that? How do you know?



Νι	umber	⁻ Sense	Nar	Name:					
Un	it Test				Date:				
<u>Sec</u>	ection C (continued)								
24.	Round to	the nearest <u>tens</u> place.	HINT: Underlin	e the tens digit firs	t.				
	a) 16		b) 81		c) 255				
25.	Round to	the nearest <u>hundreds</u> p	ace. HINT: Ur	derline the hundre	ds digit first.				
	a) 178		b) 236		c) 419				
	d) 975		e) 1477		f) 2831				
26.	Round to	the nearest thousands (place (underlir	ne the thousands	digit first):				
ä	a) 2457		b) 8193		c) 3524				
27.	27. A store has the following items for sale:								
	A. Sofa -	\$525 B. Arm Chair	- \$216 C .	Table - \$219	D . Desk - \$354	E. Lamp - \$97			

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a) What could you buy if you had \$750 to spend? Estimate to find out. Then add the actual price to check:

b) What would you buy if you had \$1 000 to spend? Again, show both your estimate and the actual total price:



Unit Test

Name:				

Date: ____

Section D

28. Count the given coins and write the total amount: Hint: Count by the greater amount first.



- a) 20¢ 5¢

 b) 41¢ 25¢

 c) \$4
 \$2

 d) \$7
 \$1

 \$2
- 30. Use the least number of coins to make the totals: Hint: Start by seeing how many dimes you need (if any), then nickels and then pennies.
 a) 16¢
 b) 23¢
- 31. Erik sold cookies for his class field trip. He collected 4 toonies, 6 loonies, 2 quarters, 7 dimes, 3 nickels and 9 pennies. How much money did he collect in total?

32. Cathy spent 73¢ on her eraser. She paid for it with a loonie. Calculate her change:



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Unit Test: Number Sense – Workbook 4, Part I

Section A		Section B		<u>Sect</u>	Section C			Section C (continued)			
1.	a)	Tens	12.	hundreds	tens	19.	a)	• • •	22.	The c	other number must
	b)	Hundreds		3	9			and		have	been 1 since any
	d)	Ones						• •		numb	to the number
	d)	Thousands		hundreds	tens			• •		itself.	
	e)	Hundreds		4	1			••	23.	The n	umber must have
	f)	Tens	13.	thousands	hundreds		b)	• • • • •		been	0 since any
2.	a)	426		5	7					numb	er times zero is
	b)	1 637							24		20
	C)	8510		thousands	hundreds			• • •	24.	a)	20
	d)	3 204		7	2			• • •		D)	80 260
3.	a)	Five hundred	14.	a) 3 th	ousands +				25	C)	200
		sixty-two		, 3 hu	ndreds +		C)	• • • • • •	25.	a)	200
	b)	One thousand		4 ter	าร +		,	• • • • • •		D)	200
		three hundred		6 or	les .			• • • • • •		C)	400
	c)	Four thousand		b) 4 th	ousands +			and		a)	1000
	0)	three hundred		9 nu 8 tei	nareas +			• • • •		e)	1 500
		eight		5 or	les					f)	2800
4.	a)	1 346	15.	a) 72				• • • •	26.	a)	2000
	b)	3 209		b) 709				• • • •		b)	8 000
5.	a)	2438		c) 140	8		,			C)	4 000
	b)	4 361		d) 3.84	3	20.	a)	• • • • •	27.	a)	Answers will
6.	Teach	ner to check.		e) 8.00)7			• • • • •			vary: teacher to
7.	a)	5 thousands +	16	a) 27				••••		h)	
	ς,	2 hundreds +	10.	b) 413				• • • • •		0)	vary: teacher to
		7 tens + 6 ones		c) 765				• • • • •			check.
	b)	3 thousands +		d) 265	3			5 × 7 = 35			
		0 hundreds +		a) 672	6			Jenny planted			
		1 tens + 4 ones	17	$e_{1} = 0.12$	0			35 seeds.			
	C)	9 hundreds +	17.	a) 19			b)	• • • •			
		3 tens + 8 ones	10	D) 000	mod @1 072			• • • •			
	d)	6 thousands +	10.	more than F	-mma			• • • •			
		4 hundreds +		(\$2418 – \$	1 345).			••••			
		6 tens + 0 ones						• • • •			
8.	a)	200 + 50 + 3						• • • •			
	b)	2000 + 600 +						8 × 4 = 32			
•	,	50 + 7						There would			
9.	a)	1) (424)						be room for 32			
		ii) 420					,				
	b)	i) 1232				21.	a)	975			
		ii) (1 132)					b)	570			
10.	a)	664					c)	755			
	b)	327					d)	726			
	C)	5788					e)	456			
	d)	3612									
11.	476, 4 746 <u>, (</u> 7	167, 647, 674, 764)									



Unit Test: Number Sense – Workbook 4, Part I (continued)

<u>Sectio</u>	on D	
28.	a)	67¢
	b)	62¢
	c)	104¢
29.	a)	5¢, 10¢
	b)	10¢, 1¢
	c)	\$1, \$1
	d)	\$2, \$2
30.	a)	10¢, 5¢, 1¢
	b)	10¢, 10¢, 1¢, 1¢, 1¢
31.	Eric co total.	llected \$15.44 in

32. Cathy's change would be 27¢.



Answer Keys – Workbook 4 Unit Tests

a)

2.

weasurenne	116
Unit Test	
Section A	

1. Measure all the sides of each shape:

asuren	nent		Name	:
Test				Date:
on A				
easure all th	ne sides of each shape:			N
	cm		b)	
				cm
cm		cm		cm
				cm
	Cm			

cm cm cm cm mm mm mm mm 3. Write the following units in order from smallest to largest: km cm m mm 4. Complete the following equations: 1 m = ____ cm 1 cm =____ mm 1 km = _____ m 5. Fill in the numbers missing from the following charts. Be sure to look at the headings carefully! cm mm cm km m m 3 200 2 70 5 0 0 0 5 14 11 19 6. Convert the measurement given in cm to a measurement using multiple units: a) 427 cm = ____ m ____ cm b) 259 cm = ____ m ____ cm c) 619 cm = ____ m ____ cm d) 504 cm = ____ m ____ cm



Unit Test

Name: _		 	
	Date:		

Section A (continued)

- 7. Gustav is a member of his school's track team. The track is 300 m long:
 - a) If Gustav ran 3 times around the track, how many metres would he have travelled? Show your work.
 - b) If Gustav is planning on competing for the 2 000 m race at the Metro Finals. About how many times around the track is this? Explain your answer.

8. Number the following items from smallest to largest (1 = smallest, 2 = middle, 3 = largest). What unit would you use to measure the height or length of each item? Write it underneath:



- 9. Which unit of measurement would you use for the following:
 - a) Length of a ladybug: _____ b) Height of your school: _____
 - c) Length of your arm: _____ Explain your thinking:

d) The distance traveled by plane from Halifax to Winnipeg: _____ Explain your thinking:



Unit Tests – Workbook 4, Part I

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Unit Test

Name:	

Date:

Section B

10. Each edge is 1 unit long. Write the length of each side beside the figure (don't miss any edges!). Then use the side lengths to find the perimeter. Show your work:

b)



Perimeter =

Perimeter =

11. Find the perimeter of each shape. Don't forget to include proper units in your answer:



- e) Write the letters of the shapes in order from greatest perimeter to least perimeter. (Make sure you look at the units!)
- 12. Andrea finds the perimeter by measuring each side of the square and adding them together. Betsey finds the perimeter by measuring one side of the square and multiplying this number by four. Will they get the same answer? Explain.



Unit Test

Name:	

Date: ___

Section C

13. For each clock, write the entire time – that is, the hour and the exact minute:



14. Write the time on the digital clock. Then write the time in words:





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Measurement	Name:				
Unit Test	Date:				
Section C (continued)					
15. How much time passed from 10:55 to 12:20?					
16. How many					
a) months are in 1 year?	b) weeks are in a month?				
c) days are in a year?	d) seconds are in a minute?				

- 17. How many months are in 3 years?
- 18. Use lines to connect a length of time in the first column to an equal length of time in the second be sure to convert properly!

1 year
30 years
1 day
4 centuries
120 minutes

400 years	
24 hours	
3 decades	
2 hours	
365 days	

19. In each case, match the question with the unit of time you would use to give the answer:

What is your friend's age?
How long does it take you to walk around the block?
How long is the school day?
How long is March Break?
How long is summer vacation?

years weeks months minutes hours		
weeks months minutes hours	years	
months minutes hours	weeks	
minutes	months	
hours	minutes	
	hours	

- 20. Convert the times from 24-hour notation using a.m. or p.m.
 - a) 13:00 _____
 - b) 7:30 _____



Unit Tests – Workbook 4, Part I

Unit Test: Measurement – Workbook 4, Part I

Specific answers will

vary, but the

b)



	estimate should be 6 or 7 times around the track.
a)	(2) cm; (3) m; (1) mm
b)	(3) km; (1) mm; (2) cm
a)	mm
b)	m
C)	cm (explanations will vary)
d)	km (explanations will vary)

Section B			Section C			
10.	a)	4 + 2 + 4 + 2 =	13.		a)	6:24
		12 units			b)	12:40
	b)	3+2+1+3+			c)	7:27
		2 + 1 + 4 + 6 = 22 units			d)	5:04
11	a)	20 m			e)	3:42
	h)	9 km			f)	9:33
	c)	38 cm	14.		a)	01:11
	d)	24 m				eleven minutes
	e)	BDAC				after one
12.	Yes, th same a 4 sides	ey will get the answer, since the s on a square are			b)	04:29 twenty-nine minutes after four
	all equ	al.			c)	11:47 Answers will vary: thirteen minutes before twelve;
						forty-seven minutes after eleven.
					d)	\$2, \$2
			15.		1 hr 25	min
			16.		a)	12
					b)	About 4
					c)	365
					d)	60
			17.		3 × 12	= 36 months
			18.		1 year	= 365 days
					30 yea	rs = 3 decades
					1 day =	= 24 hours
					4 centu	uries = 400 years
			10		120 mi	
			19.		ieache	1:00 p.m
			20.		a) b)	7:30 a m
						1.30 a.m.



900 m (3 × 300).

Answer Keys – Workbook 4 Unit Tests

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Probability & Data Management

Unit Test

Date:

Name:

1. In a bag of marbles, there are three different colours: blue (B), green (G) and yellow (Y).



a) Use the chart to tally the marbles. Then create a pictograph using the key provided:

Colour	Tally	Pictograph			
Blue					
Green					
Yellow					

 \bigcirc

- b) Suppose, instead, there were 9 green marbles in the bag. How would you use the key above to draw the pictograph for 9?
- 2. Complete the following tally chart below:

Question: What is your favourite animal?

Animal	Tally of Students	Count
Dog	HH HH II	
Cat	HH IIII	
Horse	<i>III</i>	
Rabbit	HH I	

Next, complete the bar graph to display the data in the chart.

Be sure to label your axes clearly, and include a title. Also, think carefully about a scale that would be suitable.



jumpmath AULTIPLYING POTENTIAL. Unit Tests – Workbook 4, Part I

Probability & Data Management

Unit Test

Name: ______ Date: ______ Girls

Boys

3. Can you help Luke read the following double bar graph?



- a) Which type of books did the same number of boys and girls prefer?
- b) What type of books do girls like most? What about boys?
- c) How many girls voted altogether? How many boys?
- 4. Determine the values of the other bars on the graphs:









a)

C)

Probability & Data Management

Unit Test

Name: _____

Date: ____

- 5. Ivan found the following information on the Internet:
 - a) Ivan must create a data display of this information.
 What type of graph do you think he should use?
 Why?

<u>City</u>	<u>Average Annual</u> <u>Snowfall (cm)</u>
Yellowknife, NT	143
Regina, SK	107
Winnipeg, MB	114
Halifax, NS	261
St. John's, NF	322

b) Display Ivan's data on the kind of graph you named above. Be sure to include labels.

6. Look at the following shapes:



Fill in the following table (using checkmarks), and then use the table to complete the Venn diagram:

Shape	Straight sides <u>only</u>	Curved sides <u>only</u>	Both straight <u>and</u> curved sides	Shapes Straight sides Curved sides
Α				
В				
С				
D				
Е				
F				
G				



Unit Test: Probability & Data Mgmt – Workbook 4, Part I

Section A					
1.	а)			
Colou	r	Tally	Pict	tograp	h
Blue		12	00	000	00
Green 8			00	00	
Yellow		6	00	0	
	b) 9 0 () wou Irawn	ld be as: OOC	
2.	A	nimal		Co	unt
	С)og		1	2
	C	Cat		9	9
	F	lorse		;	3
	F	Rabbit		(6
Οι 1	B b url 2	ar grap ut here Favour	is a s ite A	ill vary sample nimal	, e: s
ents	9				
tude	6				
of S	3				
34.					
-14	0				
**	0	Dog	Cat	Horse	Rabbit
**	0	bo O Fav	Cat	Horse Horse Anir	Rabbit
₩	о а	60 Fav	ourite Courite	e Anir	Rabbit
** 3.	a b	60 Fav) () , ()) , () , () , () , () , () , ()) , () , () , () , ()) , () , ()) , ())	te O ourite Comic Girls p novels orefer and fa	e Anir e Anir s orefer s; boys comic cts bo	mal Scs Sooks.
3.	a b c	Fav) () () 7 2	te O ourite Comic Girls p ovels orefer and fa 5 + 9 27 girl	e Anir e Anir s prefer ; boys comic cts bo cts bo + 3 = s	mal Sooks.
** 3.	a b c	Fav) (()) ()) 1 2 7 7	te Ourite Comic Girls p ovels orefer and fa 5 + 9 27 girl 7 + 9 - 9 boy	e Anir sorefer s; boys comic cts bc + 3 = s + 3 = /s	mal Sooks.
** 3. 4.	a b c	Fav Fav) (0)) (1) 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 2 7 1 1 2 7 1 1 2 7 1 1 2 7 1 1 1 2 7 1 1 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1	$\frac{1}{100}$ ourite Comic Sirls p novels prefer and fa 5 + 9 27 girl 7 + 9 - 9 9 boy 3 = 25 3 = 40	<pre></pre>	nal
** 3. 4.	a b c b	Fav Fav) (0) 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1	$\frac{1}{100}$ ouritu Comic Girls p ovels orefer and fa 5 + 9 7 girl 7 + 9 - 9 boy 3 = 25 3 = 40 3 = 11	e^{3} e^{3	nal
** 3. 4.	a b c a b c	Fav Fav) (()) () 1 2 7 7 7 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	r = 5 r = 9 r = 10 r = 10	<pre> % OF % OF</pre>	nal
** 3. 4. 5.	ab c a b c a	Fav Fav) (() (() () 1) 2) 2) 7 1) 7 1) 2 () () () () () () () (two ourities Comic Comic Comic Comic Sirls p Provels 5 + 9 7 girl 7 + 9 - 5 3 = 40 3 = 20 3 = 11 3 = 20 2 = 5 Teach theck	g_{2} g_{2} g_{3} g_{3	mal sooks.

Section B

6.





Answer Keys – Workbook 4 Unit Tests

Name:

- 1 -

Geometry

Unit Test

Date:

Section A

- 1. a) Complete the chart:
 - b) For these shapes, what relationship do you see between the number of sides and the number of vertices?

Shape name	# of sides	# of vertices

2. Mark (with a small square) all the right angles in the following figures. Then circle the figures that have exactly two right angles:





Unit Tests – Workbook 4, Part I

Geometry	Name:
Unit Test	Date:
Section A (continued)	
4. a) Name the following shapes: HINT: Use the words rhombus, square, parallelogram and rec	tangle. Watch your spelling!
(i) (ii) (iii) (iii) ((iv)

- 2 -

- b) How did you decide which shape was the rhombus? Explain.
- 5. Measure the following angles, using a protractor. Don't forget your units!



- 6. How many degrees are there in a right angle? ____
- 7. When Vanessa measured the angle in the diagram, she thought it was 70°. What error did she make? What is the correct measure of the angle?





Geometry

Unit Test

Name: _____

Date:

Section B

8. Circle the pairs of shapes that are congruent:



9. Find any shapes that are congruent to Shape A and label them with the letter A. If you can find any other shapes that are congruent to each other, label them all with the same letter:



10. In the grid below, draw TWO shapes: (i) one that is <u>congruent</u> to the shape provided but is turned on the side and (ii) one that is not congruent to the shape provided. Label them clearly:



11. What does it mean if a shape is equilateral?



Geometry

Unit Test

Name: _____

Date: _____

Section B (continued)

12. Using these shapes, answer the questions below:



- a) Which shapes above (by letter) are equilateral? _
- b) Categorize the shapes by type:

Shapes	Letter
Triangles	
Quadrilaterals	

Shapes	Letter
Pentagons	
Octagons	

- c) Which shapes (by letter) didn't fit any of the shape names given? Why?
- d) Complete the following chart. Then, using your chart and the Venn diagram provided, sort the figures by the properties given:

Property	Figures with this property:
1. I have more than 4 vertices	
2. I have at least 1 right angle	

HINT: Which figures share both properties? Which figures have neither?





Unit Test: Geometry – Workbook 4, Part I

b)





Although both a square and a rhombus are equilateral and have 2 pairs of parallel sides, a rhombus does require right angles! 105°

b) 90°

a)

Since the angle given is larger than a right angle (90°), Vanessa should have read the measure from the inner row of numbers. The correct measurement is 110°.

46°



C) any of the shapes given: it is not a polygon / quadrilateral since it contains sides that are curved. Property Figures d) #1 D, E, I, J #2 C, D, E, G, H











Answer Keys – Workbook 4 Unit Tests

-1-

Unit Test

Name:	 			

Section	Α

Se	cti	on	Α

36					
1	Describe each	npattern	as increasing	decreasing	or repeating.

•	Describe each pallern as <u>n</u>	ncreasing, decreasing c	<u>repeating</u> .	
	a) 1 , 4 , 7 , 10 , 13 , 16		b) 1,5,8,1,5,8	
	c) 9,8,7,6,5,4		d) 2 , 4 , 6 , 8 , 10 , 12	
	e) 21 , 16 , 10 , 7 , 5 , 1		f) 3 , 8 , 3 , 8 , 3 , 8	

- 2. A gardener plants roses (R), lilies (L) and tulips (T) in rows in the pattern shown to the right:
 - a) Complete the chart.
 - b) In which row will the pattern in the second row be repeated?

Row 1	R	L	Т	R	L
Row 2	Т	R	L	Т	
Row 3					
Row 4					
Row 5					
Row 6					
Row 7					

Date:

3. a) On the chart, circle every 11th number (i.e. circle the numbers you would say when counting by 11's: 11, 22, 33, ...).

The numbers you circle are the multiples of 11 (up to 132).

b) What patterns can you see in the ones digit and the tens digit of the multiples of 11?

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	180	19	20	21	22	23	14
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	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132



Linit Too

Name:			
			_

Unit Test

Date:

Section A (continued)

4. Find the step or the gap between the numbers in the sequence. Continue the pattern in the gaps. Then extend the sequence.



- 5. Roger and Eve save the amounts shown:
 - a) What is the pattern rule for the amount Roger saves?
 - b) What is the pattern rule for the amount Eve saves?
 - c) Who do you think will save more by the end of the seven weeks?
 - d) Continue the pattern to see if you are right.

Week	Roger	Eve
1	\$1	\$17
2	\$2	\$21
3	\$4	\$25
4	\$8	\$29
5		
6		
7		



- 2 -

Unit Test

Name: ______ Date: _____

- Section B
- 6. How many triangles will be needed for Figure 6? How do you know?



7. What is the 23rd shape in this pattern? Explain how you know.



8. Look at the numbers below and circle those that are multiples of 5. How do you know the numbers you circled are multiples of 5?

	75	125		132	270	382	597	670
9.	Extend each	n pattern:						
	a) 3427	3527	3627					
	b) 4234	5235	6236					
	c) 1234	2345	3456					



- 3 -

-4-

Name:

Date: ___

Section C

Unit Test

10. Find the number that makes the equation true and write it in the box:



NOTE: In these questions you have to put the same number in both boxes of the equation.

o)		+		= 8		p)		+		+	3 =	= '	13
----	--	---	--	-----	--	----	--	---	--	---	-----	-----	----

11. Find 3 sets of numbers that make the equation true: NOTE: In each equation, congruent shapes represent the same number.

] +	+	\bigcirc) = 7	+	+	\bigcirc) = 7	+	+	\bigcirc) = 7	7
_		\sim		 -		\sim		 _		\sim		

12. Raegan threw 3 darts and scored 5 points. The dart in the centre ring is worth more than the others. How much is each dart worth? Show your work:



13. Find the mystery number:

"I am greater than 17 and less than 24. I am a multiple of 4. What number am I?"



Unit Test: Patterns & Algebra – Workbook 4, Part 2

Section A

2. a)

- 1. a) increasing
 - b) repeating
 - c) decreasing
 - d) increasing
 - e) decreasing
 - f) repeating



- b) Row 5
- 3. a) Teacher to check.
 - b) For the two-digit numbers, the ones and tens digits are the same.
 For the three-digit numbers, the ones digit is 1 less than the tens digit.

4. a) <u>Gaps</u>:

2, 3, 4, 5, 6 <u>Continued Pattern</u>: 16, 22

- b) <u>Gaps</u>: 1, 2, 3, 4, 5, 6 <u>Continued Pattern</u>: 18, 24
- c) <u>Gaps</u>: -12, -10, -8, -6, -4 <u>Continued Pattern</u>: 34, 30
- d) <u>Gaps</u>:
 2, 4, 6, 8, 10, 12
 <u>Continued Pattern</u>:
 36, 48
- e) <u>Gaps</u>: - 21, - 18, - 15, - 12, - 9 <u>Continued Pattern</u>: 33, 24
- f) <u>Gaps</u>: - 5, - 10, - 15, - 20, - 25, - 30 <u>Continued Pattern</u>: 35, 3

 Each week, Roger saves twice as much as he did the previous week.

5.

- b) Each week, Eve saves \$4 more than she did the previous week.
- c) Answers may vary.

d)	Wk	R	Е
	1	\$1	\$17
	2	\$2	\$21
	3	\$4	\$25
	4	\$8	\$29
	5	\$16	\$33
	6	\$32	\$37
	7	\$64	\$41

Roger will save more by the end of seven weeks (\$64 vs \$41).

6.	Fig #			1			
	•				\triangle	10.	a) b)
	1	2			4		c)
	2	3			6		d)
	3	4	4				e)
	4	5			10		f)
	5	6			12		g)
	6	7	7		14		h)
	For Figu 14 trian	ure 6, y gles.	ou v	vill	need		i) j)
7.	Skip co 4, 8, 12 20th ter		k) I) m)				
			215				n)
	Term:	21	23	3	23		<u>NC</u> Fo
	Shape:		yoı nu				
9.	75, 125 You car the one a 5 or 0 are divis a) 37 b) 72 c) 45	270, 6 n tell by s digit: in the sible by 727, 3 8 237, 8 2 567, 5 6	670 1 lool those 100 100 100 100 100 100 100 10	king se v 3 9 2 6 7	g at vith git 27 39 89	11.12.13.	 o) p) 1 + 2 + 3 + Yo quid □ Th 1 + Bu wo firs Ou Ce Th



13. The mystery number is 20.



-1-

Date:

Name: ______

Unit Test

Section A

- 1. Mary Anne has 12 cookies. She gives 3 cookies to each of her friends. How many friends get cookies?
- 2. Aidan has 14 stamps. He puts 2 stamps on each envelope. How many envelopes does he use?
- 3. a) 6 grapefruits in each box; 42 grapefruits; 7 boxes.
 What has been shared or divided into sets? ______ How many sets? ______
 How many in each set? ______
 - b) 3 school buses; 30 kids; 10 kids in each school bus.
 What has been shared or divided into sets? ______ How many sets? ______
 How many in each set? ______
- 4. 5 friends share 15 tickets. How many tickets does each friend get? Show your work.

5. Write a division statement and an addition statement for the given picture:





Unit Test

Name:				

Date:

Section B

6. For each question, write a multiplication or a division statement to solve the problem:

a)	18 things in total 3 things in each set	b)	5 sets 4 things in each set				
	How many sets?		How many in total?				
C)	8 sets 3 things in each set	d)	6 things in each set 12 things in total				
	How many in total?		How many sets?				
Show your work for these problems in the space provided:							
a)	20 people; 4 vans. How many people in each van?	b)	3 marbles in each jar; 6 jars How many marbles?				

a)	20 people; 4 vans. How many people in each van?	b)	3 marbles in each jar; 6 jars. How many marbles?
C)	15 flowers; 5 pots. How many flowers in each pot?	d)	4 chairs at each table; 2 tables. How many chairs?

8. Find two different ways to share 9 apples equally so that one apple is left over:



Unit Test

Name:	

Date: _

d)

Section B (continued)

9. For each question, carry out the steps of long division:

b)



- 3 -

10. Carry out all the steps of long division:



4

e)

5) 8







11. A canoe can hold 3 kids. How many canoes will 44 kids need?











- 6) 8 9
- 12. Alexa put 73 apples in bags of 6. Mike put 46 apples in bags of 4. Who had more apples left over?







Unit Test

Section B (continued)

13. Divide:



14. An equilateral triangle has a perimeter of 531 cm. How long is each side?

Name:



- 15. Find the mystery numbers:
 - a) "I am a multiple of 6. I am greater than 21 and less than 27."
 - b) "I am divisible by 7. I am less than 25 and I am even."
- 16. Name two numbers less than 20 that give a remainder of 1 when divided by 4.
- 17. Four boxes hold 24 bottles. How many bottles will five boxes hold? Show your work.

-4-

Date:



Name: Unit Test Date: **Section C** 18. Name the following fractions: a) b) C) d) 19. What fraction of the figure is the shaded piece?

- 20. Write the fractions in order from least to greatest:
 - a) $\frac{2}{10}$, $\frac{1}{10}$, $\frac{7}{10}$, $\frac{9}{10}$, $\frac{5}{10}$ b) $\frac{1}{5}$, $\frac{1}{2}$, $\frac{1}{4}$ c) $\frac{2}{3}$, $\frac{2}{5}$, $\frac{2}{7}$
- 21. Shade one piece at a time until you have shaded the amount of pie given. There may be more pies than you need:



jump math ULTIPLYING POTENTIAL

Unit Tests – Workbook 4, Part 2

- 5 -

Unit Test

Name: _____

Date:

Section C (continued)

22. Write these fractions as both <u>mixed</u> fractions and as <u>improper</u> fractions:



23. Find the fraction of each of the following numbers by writing an equivalent division statement. Then skip count to find the answer:

a) $\frac{1}{2}$ of 8 b) $\frac{1}{2}$ of 10 c) $\frac{1}{3}$ of 9 d) $\frac{1}{4}$ of 1	2
--	---

- 24. Is $\frac{2}{3}$ greater than 1 whole pie or less than 1 whole pie? How do you know?
- 25. Bottles come in packs of 6. How many bottles are in $3\frac{1}{2}$ packs?

26. Draw a picture (using dots) to show $\frac{4}{5}$ of 10.

27. Which is greater: $2\frac{1}{4}$ or $\frac{5}{2}$? Draw a picture to show your answer:

28. Add or subtract:

a) $\frac{9}{15} - \frac{3}{15} =$ b) $\frac{3}{7} - \frac{2}{7} =$ c) $\frac{7}{9} - \frac{3}{9} =$



- 6 -

Unit Test

Date:



29. Write a fraction for the number of hundredths. Then write a fraction for the number of tenths:



30. Fill in the chart below:

Drawing	Fraction	Decimal	Equivalent Decimal	Equivalent Fraction	Drawing

31. Write the following decimals as fractions:

a) .2 =	b) .35 =	c) .04 =	d) .8 =	e) .6 =
f) .02	g) .72 =	h) .4 =	i) .23 =	j) .25 =

- 32. Change the following fractions to decimals:
 - a) $\frac{82}{100} = ...$ b) $\frac{7}{100} = ...$ c) $\frac{77}{100} =$ d) $\frac{7}{10} =$



-7-

Name: _____

Unit Test

- 8 -

Date:

Name:

Section D (continued)

- 33. Write a decimal for each of the mixed fractions below:
 - a) $1 \frac{23}{100} =$ b) $2 \frac{71}{100} =$ c) $8 \frac{7}{10} =$ d) $4 \frac{27}{100} =$ e) $3 \frac{7}{100} =$ f) $17 \frac{8}{10} =$ g) $27 \frac{1}{10} =$ h) $38 \frac{5}{100} =$
- 34. Write the numbers in order (from least to greatest) by first changing each decimal to a fraction with a denominator of 10:

a) 0.7 , 0.3 , 0.5 b)
$$\frac{1}{10}$$
 , 0.3 , 0.9

c)
$$\frac{7}{10}$$
 , 0.3 , $\frac{4}{10}$ d) 0.7 , 0.8 , $\frac{2}{10}$

- 35. Line up and add or subtract the following decimals:
 - a) 0.32 + 0.17 b) 0.64 0.23 c) 0.67 0.2
- 36. Mark each point with an 'X' and label the point with the correct letter:



- 38. A racer snake is .36 metres long.
 - a) What fraction of a metre is the snake?
 - b) How many cm long would 2 racer snakes be if they were laid end to end?



Unit Test

Name: _____

Date: _____

Section E

39. Sarah has \$4.67 and Uma has \$5.24. How much more money does Uma have than Sarah?

40. Ash has \$25.62. He wants to buy a present for his father for \$17.38 and a book for himself for \$5.97. Does he have enough money to buy both the book and the gift?

41. Estimate by rounding each amount <u>to the nearest dollar</u> before performing the operation:



42. Erika had \$10.00. She bought a set of pencil crayons for \$7.89. Estimate her change:

43. Fill in the blanks.

a) _____ is .1 more than .8 b) _____ is .1 less than .6 c) $2.3 + ____ = 2.4$ d) $3.71 - ___ = 3.61$ e) $3.48 - ___ = 3.47$ f) $4.53 + ___ = 4.54$



Unit Test: Number Sense – Workbook 4, Part 2

Section A

ls

- 2. 7 envelopes
- 3. a) Grapefruits; 7; 6
- b) Kids; 3; 10
- 4. $15 \div 5 = 3$; Each friend gets 3 tickets.
- 5. 15 ÷ 5 = 3; 5 + 5 + 5 = 15

<u>Sec</u>	tion	В	Sec	tion	<u>1 C</u>
6.	a)	18 ÷ 3 = 6; 6	18.	a)	$\frac{1}{2}$
	b)	5 × 4 = 20; 20		b)	<u>1</u>
	c)	8 × 3 = 24; 24			4
	d)	12 ÷ 6 = 2; 2		c)	9
7.	a)	$20 \div 4 = 5;$ 5 people in each van		d)	$\frac{3}{10}$
	b)	6 × 3 = 18:	19.	a)	$\frac{2}{2} = \frac{1}{2}$
	- /	18 marbles		, ,	8 4
	c)	15 ÷ 5 = 3;		D)	8
	-1)	3 flowers in each pot		c)	$\frac{3}{9} = \frac{1}{3}$
	a)	4 × 2 = 8; 8 chairs		d)	$\frac{1}{12}$
8.	2 gr	oups of 4 apples	20	-)	12
	OR		20.	a)	$\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$
	4 gr	oups of 2 apples		b)	$\frac{1}{5}, \frac{1}{4}, \frac{1}{2}$
9.	a)	4 R4		c)	$\frac{2}{7}, \frac{2}{5}, \frac{2}{3}$
	b)	4 R1	21	a)	
	c)	3 R4 9 D1	21.	u)	
10	u) a)	24 R2		b)	
10.	b)	13 R2			
	c)	13 R1		c)	$\square \square $
	d)	14		N	
	e)	16 R4		d)	\odot
	f)	16		e)	
	g)	32		-,	0000
11	n) 14 r	14 R5		f)	$\square \square $
11.	The	<z, y will need 15 canoes.</z, 			
12.	Alex	a: 73 ÷ 6 = 12 R1	22.	a)	$2\frac{1}{3} = \frac{7}{3}$
	Mike	e: 46 ÷ 4 = 11 R2		b)	$3\frac{1}{8} = \frac{25}{8}$
	So,	Mike had more apples	23.	a)	8 ÷ 2 = 4
13	16π 0	Dver.		b)	10 ÷ 2 = 5
13.	Fac	h side of the triangle is		c)	9 ÷ 3 = 3
	177	cm long (531 ÷ 3).		d)	12 ÷ 4 = 3
15.	a)	24	24.	$\frac{2}{3} <$	1. Teacher to check
	b)	14		exla	anation.
16.	Fou	r possibilities so	25.	21 k	pottles
	5, 9,	, 13 and 17	26.	•	•
17.	Five	boxes will hold		•	•
	30 b	oottles.		•	•
	App for e	roach may vary – example:			
	24 ÷	4 = 6 bottles per box			
	6 × 8	5 = 30 bottles			

27.	$\frac{5}{2}$ is	greater than 2 $\frac{1}{4}$
	Tea expl	cher to check anation.
28.	a)	<u>6</u> 15
	b)	<u>5</u> 7
	c)	<u>4</u> 9
29.	a)	$\frac{50}{100} = \frac{5}{10}$
	b)	$\frac{60}{100} = \frac{6}{10}$
	C)	$\frac{10}{100} = \frac{1}{10}$
	d)	$\frac{70}{100} = \frac{7}{10}$
30.	7 10;	.7; .70; <u>70</u>
	* Te	acher to check drawing
	<u>10</u> ;	1.0; 1.00; <u>100</u>
	* Te	acher to check drawing
31.	a)	<u>2</u> 10
	b)	<u>35</u> 100
	c)	<u>4</u> 100
	d)	<u>8</u> 10
	e)	<u>6</u> 10
	f)	<u>2</u> 100
	g)	<u>72</u> 100
	h)	<u>4</u> 10
	i)	<u>23</u> 100
	j)	<u>25</u> 100
32.	a)	.82
	b)	.07
	c)	.77
	d)	.7
33.	a)	1.23
	b)	2.71
	c)	8.7
	d)	4.27
	e)	3.07
	f)	17.8
	g)	27.1

h) 38.05

Section D

Unit Test: Number Sense – Workbook 4, Part 2 (continued)



Section E 39. Uma has 57¢ more. 40. Yes. He needs \$23.36 (< \$25.62) 41. a) Estimate: \$34 - \$27 = \$7 Actual: \$34.21 - <u>\$26.57</u> \$7.64 b) Estimate: \$48 - \$12 = \$60 Actual: \$47.93 + <u>\$12.44</u> \$60.47 42. Estimate \$2 (Actual \$2.11) 43. a) .9 b) .5 C) .1 d) .1 e) .01 f) .01



Unit Test

Section A



2. Calculate the area of each rectangle (be sure to include the units). Then, by letter, create an ordered list of the rectangles from greatest to least area. Pay attention to the units!



- 4. If you know the length and width of a rectangle, how can you find its area?
- 5. A rectangle has an area of 10 cm² and a length of 5 cm. What is its width? Explain how you found your answer:



- 1 -

Unit Test

Name:					
					Ī

C)

Section A (continued)

6. Two half squares \bigcap cover the same area as a whole square

Count each pair of half squares as a whole square to find the area shaded:

b)



Area = _____ whole squares

Area = _____ whole squares

В



Date: _____

7. For each rectangle, estimate and then measure the length and width with a ruler. Record your answers in the chart:





Rectangle	Estimated Perimeter	Estimated Area	Length	Width	Actual Perimeter	Actual Area
Α	cm	cm ²	cm	cm	cm	cm ²
В						
С						

- 8. Karen wants to make a rectangular flower bed with width 2 m and length 3 m.
 - a) What is the perimeter of the bed?
 - b) Fence costs \$2 for each metre. How much will a fence for the flower bed cost?
 - c) Karen wants to plant 3 flowers in each square metre of the flower bed. How many flowers will she need to buy?



				- 3 -			
Μ	eas	urement			Name:		
Un	it Te	st				Date	9:
Sec	ction	В					
9.	Char	nge the following meas	surements to	grams:			
	a) 3	s kg =	b) 9	9 kg =		c) 17 kg	=
10.	A ho	use cat weighs about	5 kg. What is	its mass in	grams?		
11.	A pe	nny weighs 2 grams, a	nickel weigh	is 4 grams a	ind a loonie we	ighs 7 grams:	
	a) ⊦	low many pennies wei	gh as much a	as 4 nickels?	2		
	b) F	low many loonies weig	ah as much a	s 7 nickels?			
	- /						
12.	Wha	t unit is more appropria	ate to measur	re each iem'	? Circle the ap	propriate unit:	
	Ţ	grams or kilogr	ams? 🖉	grams o	r kilograms?	T	grams or kilograms?
13.	Cheo	k off the appropriate b	oox. Would ye	ou use gram	ns or kilograms	to weigh	
	a) a	moose?	□ g	🗌 kg	b) a desk?	□ g	🗌 kg
	c) a	piece of cheese?	🗌 g	🗌 kg	d) a tiny bird	? 🗌 g	🗌 kg
	a) a	pencil?	🗌 g	🗌 kg	f) yourself?	□ g	🗌 kg

- 14. a) A baby elephant weighed 160 kilograms when it was born. It grew at a rate of 8 kilograms each week. How much did the baby elephant weigh when it was 4 weeks old?
 - b) Cucumber and pea seeds weigh 2 grams each and radish seeds weigh 3 grams each. Joel bought 8 cucumber seeds, 12 pea seeds and 3 radish seeds. How much did his seeds weigh altogether?



Measurement	Nam	e:
Unit Test		Date:
Section B (continued)		
15. Change the following measurements to m	illilitres:	
a) 5 L = b) 2 L =	c) 12 L =	d) 47 L =
16. Circle the appropriate unit to measure thea) L or mL?	capacity of each contai L or mL? c)	iner. Is it litres (L) or millilitres (mL)?
17. Which set of containers has the greatest of	capacity? How do you l	know?
	OR b)	
18 For each of the following canacities how u	many containers would	be needed to make a litre? Explain

- 18. For each of the following capacities, how many containers would be needed to make a litre? Explain how you know:
 - a) 100 mL b) 500 mL c) 250 mL
- 19. Find the volume of the shapes below. Each cube is 1 cm³. Explain how you counted the cubes you couldn't see:



c) Total the measurements of capacity:

jump math



1 kg of bananas

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Unit Test: Measurement – Workbook 4, Part 2

Section A

- Area of A = 8 $units^2$ 1. Area of $B = 4 \text{ units}^2$ Area of C = 12 units²
- 35 m² 2. a)
 - 36 cm² b)
 - 50 m² C)
 - d) 56 km²
 - D, C, A, B
- 35 m² 3. a)
 - b) 18 m²
 - 48 cm² C)
- To get the area, multiply 4. the length by the width $(A = I \times w).$
- Width = 2 cm5. To find, skip count by 5's until you 'hit' 10 or divide 10 by 5.
 - a) 6 whole squares
 - b) 6 whole squares
 - 8 whole squares C)
- 7. Actual measurements:

	L	w	Ρ	Α
A	3 cm	5 cm	16 cm	15 cm ²
в	2 cm	m 4 cm 12 cm 8 c	8 cm ²	
С	5 cm	2 cm	14 cm	10 cm ²

8. a) 10 m

6.

- b) \$20
- 18 flowers C)

Se	ction	В	
9.	a)	3	000 g

- 9 000 g b) 17 000 g C)
- 10. 5 000 g
- 11. a) 8 pennies
 - b) 4 loonies
- 12. kilograms; grams; kilograms
- 13. a) kg
 - b) kg
 - C) g d) g
 - e) g
 - f) kg
- 192 kg 14. a)
 - 49 g b)
- 15. a) 5 000 mL
 - 2 000 mL b)
 - 12 000 mL C)
 - d) 47 000 mL
- 16. a) L mL
 - b)
 - C) L
- 17. Set a) has the greatest capacity - after you cross out the 'shared' containers, you are left with 2 large containers in a) and 2 small containers in b); 2 large are greater in capacity than 2 small.
- 18. a) 10 containers $(1000 \div 100 = 10)$
 - 2 containers b) $(1000 \div 500 = 2)$
 - 4 containers C) $(1000 \div 250 = 4)$
- 19. a) 8 cubes
 - b) 12 cubes
 - 27 cubes C)

To count the boxes you can't see, you might count the "front" and multiply by the number of layers.

- 20. a) Capacity: 2 L soy milk; 200 mL yogurt Mass: 300 g strawberries; 1 kg bananas
 - 1.3 kg / 1 300 g b)
 - C) 2.2 L / 2 200 mL

	UNANI	lity & Data Manager	nent	N	ame:		
Un	it Test	, ,			Da	te:	
Se	ction A						
1.	Find the <u>rai</u>	nge of the following data sets:					
	a) 45, 23	, 14, 95, 44, 7	b)	123, 46	6, 35, 70, 21, 354		
	Range	: to		Range:	to		
2.	Find the <u>m</u> e	ean of the following data sets:					
	a) 3, 5, 7, 	, 11, 14	b)	16, 5, 1	1, 3, 20		
	Mean:			Mean:			
3.	Find the mo	ode of the following data sets:					
	a) 3, 8, 8			c)	Stem	Leaf	
	Mode:				3	227	_
					4	3344	_
					5	18889	_
	c) 7, 7, 4,	, 5, 7, 4, 4, 7			6	0344	
	Mode:				Mode:		
4.	Find the me	edian of the following data sets:					
	a) 3, 4, 10	0, 12, 17	b)	3, 11, 8	8, 10, 4		
	Media	n:		Median	::		
	c) 18, 5, ⁻	18, 76, 10, 92	d)	27, 3, 1	, 85, 553, 23		
	Media	n:		Median	:		

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jump math MULTIPLYING POTENTIAL Unit Tests – Workbook 4, Part II

Probability & Data Management

Unit Test

Name:

Date: _____

Section A (continued)

5. Mrs. Lynch gave her students a spelling test (marked out of 20) and entered the marks in the chart. Make a stem and a leaf plot of this data.

- 2 -

17	5	18	10	12	15	10	16	29
30	25	19	19	9	20	19	20	30

Stem	Leaves	



Probability & Data Management

Unit Test

Name: _____

Date:

Section B

8.

6. What are the possible outcomes for these spinners? (The first one is done for you.)



7. You draw a ball from a box. How many different outcomes are there in each of the following cases?





10. If you spun the spinner in Question 9 a) twelve times, how many times would you expect to spin red? Explain.



- 3 -

Geometry

Unit Test

Name: _____

Date:

Section B (continued)

11. Using the words "certain", "likely", "unlikely" or "impossible", describe the likelihood of...



12. Describe each outcome as "impossible", "unlikely", "likely" or "certain":



- 13. Explain your answer for Question 12 c):
- 14. Name an event that is...
 - a) certain: _____ k

b) impossible: _____

15. Dennis and Kevin are playing with the spinner below. If they spin red, Kevin wins, if they spin yellow, Dennis wins. Is their game fair? If not who has a better chance of winning? Explain your answer.





-4-

Unit Test: Probability & Data Mgmt – Workbook 4, Part 2

Section B

Section A						
1.	a) 7 to 95					
	b)	21 to	354			
2.	a)	8				
	b)	11				
3.	a)	8				
	b)	7				
	C)	58				
4.	a)	10				
	b)	8				
	c)	18				
	d)	25 (tl	ne average of			
		23 ar	nd 27)			
5.	S	stem	Leaves			
		0	57			
		1	001568999			
		2	00059			
		3	00			

6.	b)	You spin a 1, 2, 3 or 4.		
	c)	You spin a 2.		
7.	a)	3 outcomes		
	b)	2 outcomes		
	c)	4 outcomes		
	d)	6 outcomes		
8.	a)	13		
	b)	14		
	c)	25		
	d)	2		
	e)	3		
	f)	9		
	g)	13		
	h)	21		
9.	a)	<u>2</u> <u>3</u>		
	b)	I would expect $\frac{1}{4}$ of		
		the spins to be red.		
10.	$\frac{2}{3}$ of	the spinner is Red, so $\frac{2}{3}$		
	of 12	2 spins will be red. $\frac{2}{3}$ of		
	12 is prod	s 8, so 8 times should uce red.		
11.	a)	Likely		
	b)	Unlikely		
	c)	Impossible		
	d)	Certain		
12.	a)	Unlikely		
	b)	Unlikely		
	c)	Likely		
	d)	Impossible		
13.	Ansv More yello yello	wers will vary. Sample: e than half a spinner is w, so it is likely to spin w.		
14.	Ans	wers will vary.		
	Tead	cher to check.		
15.	The game is not fair, Kevin has a better chance of winning, since 3 out of 8 possible outcomes are red, and only 2 are yellow.			



					- 1 -						
Geometry Unit Test						Ν	lame:				
								Date	e:		<u> </u>
<u>Se</u>	ction	<u>A</u>									
1.	Draw li	nes in the giv	en column	and row. Th	en circle	the dot w	here the t	two lines r	neet:		
	a)	• • •	b)	• • •	С	;) •	• •	d)	• •	•	
		• • •		• • •		•	• •		• •	•	
		• • •		• • •		•	• •		• •	•	
	С	Column 1		Column 2		Colu	mn 1		Columr	13 1	
				IXUW J		RO	w 2		TX0W	1	
2.	Identify	the column a	and row fo	r the circled d	ot:						
	a) •	• •	b)	• • •	С	:) •	• •	d)	• •	•	
		• • •		• • •		•	• •		• •	•	
		• • •		• • •		•	• •		•	•	
	Co	lumn	(Column	_	Colum	n		Column _		
	R	.ow		Row		Row			Row		
2	Clide th	a dat									
J.	Silde li										
	a) 3 ι	units down	b) 5 units	right	C)	6 units le	ft; 4 units	down	d) 3 units	s right; 1	unit up
					_			┼┿┤			
4.	Slide e	ach figure 5 b	oxes to th	e right and 2 l	boxes do	wn:					
	a)				b)						
			+ $+$ $+$	+							

5. Circle the pictures that <u>do not</u> show reflections:







d) How do you know the figures you circled aren't reflections?



Geometry

Unit Test

Date:

Name: _____

Section A (continued)

6. Answer the following questions using the coordinate system:





a) What would you find in square (A,3)?

- b) What would you find if you travelled 2 grid squares west of the valley?
- c) Give the coordinates of the city:
- d) Describe how to get from the city to the lake:
- e) Describe how to get from the hill to the city:
- 7. Use the following clues to figure out where all the children sit:



- Walk 2 desks down and 1 desk right from Eric to find John's seat.
- Samir is 1 desk left of Eric.
- Sally is between Lars and Indra.
- Walk 2 desks right and 1 desk up from Lars to find Mary's desk.
- Emma is 2 desks up from Peter.
- ✓ Walk 1 desk up and 1 desk left from Anne to find Janet.



- 2 -

Geometry					Name:				
Unit Test					Date:				
<u>Se</u>	Section A (continued)								
8.	Sho	ow where the arrow o	r the shape v	vould be afte	r each tu	urn:			
	a)		b)	••	c)	←	d) 	•	
		1/4 turn clockwise	½ turn o	clockwise	3⁄4	turn clockwise	1 whole tu	rn clockwise	
	e)		f)	\	g)		h) 		
		¼ turn counter clockwise	½ turn cloc	counter kwise	3/.	4 turn counter clockwise	1 wh counter	ole turn clockwise	

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Geometry

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Geometr Unit Test	У	Nam	ne: Date: _	
<u>Section B</u>				
9. Match each s	shape to its name:			
	,			

square pyramid cylinder

triangular

prism

cone

rectangular prism

triangular pyramid

10. Fill in the chart for each figure:

	 	, ²	
Number of Faces			
Number of Vertices			
Number of Edges			

11. a) Fill in the chart below:





Property	Pentagonal Pyramid	Square Pyramid
Number of faces		
Number of edges		
Number of vertices		
Number of bases		
Shape of base		
Shape of faces that are not bases		

b) Use your work in part a) to say how the shapes are the same and how they are different.



Geometry Unit Test		Name: Date:						
Section C								
Α	В	С	D	Е	F			

Choose one property of 3-D figures from each list below and use them to sort the shapes above:

List 1	List 2
Prisms	Has at least 1 triangular face
Pyramids	Has at least one rectangular face
Have 1 base	8 edges or more
Have 2 bases	6 vertices or more.

Property Figures with this property:				
1.				
2.				



- 13. Match the description of the figure with its name:
 - _____ cone
 - triangular prism
 - _____ cube
 - _____ cylinder
 - triangular pyramid

- A. I have 6 congruent faces.
- B. I have 5 faces: 2 triangles and 3 rectangles.
- **C.** I have 4 faces. Each face is a triangle.
- **D.** I have 2 circular bases and a curved face.
- E. I have 1 circular base and a curved face.



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Geometry

Unit Test

Date: _____

Name: _____

Section C (continued)

14. Draw the missing face for each net. Fill in the names of the shapes.





Unit Test: Geometry – Workbook 4, Part 2







Section B

- 9. Shapes, from left to right:
 - Rectangular (or square) prism
 - Square pyramid
 - Cone
 - Cylinder
 - Triangular pyramid
 - Triangular prism

10.							
		\triangle	Ð			N.	
Fac	es	5	4	6	6		5
Ver	tices	5	4	8	8		6
Edg	es	8	6	12	12	2	9
11.	a)			PF	,		SP
	Face	s		6		5	
	Edge	es		10		8	
	Verti	ices		6		5	
	# of	base	s	1		1	
	Shap base	pe of e		\bigcirc			
	Shap face are r base	pe of s tha not es	it	\triangle		\triangle	
	b)	Ans	wers	will	var	y.	
		Des	cripti	on s	hοι	JIC	ł

- include:
- Same:
- pyramids
- both have 1 base,
- non-base faces are triangles in both shapes
- Different
- # of faces, vertices, edges
- Shape of base



Unit Test: Geometry – Workbook 4, Part 2 (continued)



jump math MULTIPLYING POTENTIAL Answer Keys – Workbook 4 Unit Tests