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Mathematics

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Student name:

Mathematics - Unit 1

Dictation

1. Is a prime number a factor of forty?
2. The numerator and the denominator are not used in decimal notation.
3. Is the quotient divisible by an equivalent fraction?

Find a smaller word in each of these list words that matches the meaning.

forty	strong, fortified place	_____
factor	thespian, one who plays a part	_____
prime	the outer edge	_____
accurate	a member of the clergy	_____
descending	concluding	_____
notation	to make lace	_____
equivalent	a valley	_____
multiple	to tilt or topple	_____

Write the base words for these list words, then write another word that uses the same base word.

numerator	_____ numerate	_____ numeration
notation	_____	_____
divisible	_____	_____
descending	_____	_____
denominator	_____	_____

Write 5 other words that contain the same spelling pattern as the underlined section.

<u>plane</u>					
<u>plain</u>					
<u>prime</u>					
<u>quotient</u>					
<u>descending</u>					

Cross out the incorrect word/s.

1. We (court / caught) the (plane / plain) to the Gold Coast.
2. The recipe said to use (plane / plain) (flower / flour) in the cake.
3. A triangle is a (plane / plain) shape.
4. We used the (plane / plain) to smooth the wood when we (made / maid) a table.
5. The wild horses galloped across the (plane / plain) .
6. Some of the police were in (plane / plain) clothes at the (seen / scene) of the accident.
7. The invitation came in a (plane / plain) white envelope, but (their / there / they're) was an interesting design on the paper.
8. The (to / too / two) girls were different. (Won / One) was (quite / quiet) (plane / plain) and the other was very beautiful.
9. It was (plane / plain) to (sea / see) that the fire had completely destroyed the building.
10. The bride's wedding (wring / ring) was a (plane / plain) gold (band / banned) that had been (scent / cent / sent) from her grandmother in (Chile / Chilly).

Copy the list words.

1.	plain	
2.	prime	
3.	plane	
4.	solve	
5.	forty	
6.	factor	
7.	multiple	
8.	decimal	
9.	integer	
10.	notation	
11.	numerator	
12.	accurate	
13.	composite	
14.	denominator	
15.	quotient	
16.	divisible	
17.	equivalent	
18.	reciprocal	
19.	descending	
20.	vinculum	

A multiple is a number containing another number, more than once, without a remainder e.g. 12 is a multiple of 3. Fill in the multi numbers to match the meanings.

1. manifold, multiple
2. A multitude or great number
3. The number to be multiplied by another
4. to multiply
5. A great number of things or people
6. To increase the number, quantity

1.	m	u	l	t	i				
2.	m	u	l	t	i				
3.	m	u	l	t	i				
4.	m	u	l	t	i				
5.	m	u	l	t	i				
6.	m	u	l	t	i				

Choose the correct syllables from the box. Each syllable can only be used once, and the number of syllables is in brackets.

dec	in	quo	num	site	de	tor	cu
	er	u	nom	po	a	er	cal
i	re	cip	ro	in	scend	lum	
com	tient	de	vin	mal	acc	or	
	teg	ing	rate	at			

1. Relating to tenths (3)

2. An integer greater than 1, divisible by other integers (3)

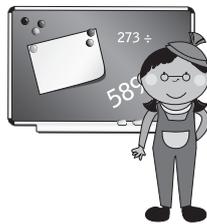
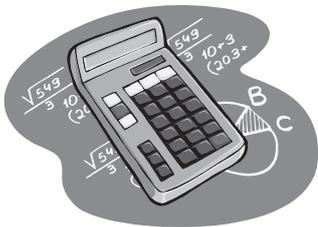
3. The separator line of a fraction (3)

4. To turn upside down (4)

5. Any whole number (3)

6. The number on the top of a fraction (4) _____
7. The number on the bottom of the fraction (5) _____
8. The number of times one number can be in another (2) _____
9. Going or coming down (3)

10. Free from error (3)



Write the antonyms for these words from your list.

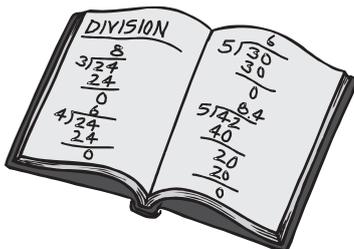
- | | |
|-------------------|-----------------|
| numerator _____ | beautiful _____ |
| inaccurate _____ | uneven _____ |
| prime _____ | ascending _____ |
| unequal _____ | single _____ |
| indivisible _____ | |

Solve these.

1. List the first three composite numbers.

2. List the first three prime numbers. _____
3. Find the reciprocal of $2 \frac{1}{2}$. _____
4. Arrange in descending order. -12, 6, 3, -1, 0 _____
5. Write the fraction $\frac{3}{5}$ as a decimal.

6. What number am I? I am a multiple of 4, 5 and 6. I lie between 100 and 150.



Writing Ideas

Jess, in answering a word problem, wrote $-6 + 10$. What might Jess's problem be? Write some of your own word problems, and ask a friend to solve them.

Mathematics - Unit 2

Dictation

1. Work out the area and volume of the prism.
2. If you measure the perimeter you can calculate the number of hectares.
3. There are different formulae to work out the dimensions of a parallelogram.

Find and circle the incorrect words. There are 12.

- The lenth of the diganol is fourteen centimeters.
- Can you calculate the arear of this prism?
- When you mesure the area of a paralelogram, the dimensons of the figer need to be accurate.
- Time can bee written as dijital or anulog.

Finish these definitions in your own words.

Area is _____
 Perimeter is _____
 Capacity is _____
 Volume is _____

Write the base words for these list words.

symmetrical _____ symmetry _____
 centimetre _____
 digital _____
 weighed _____
 conversion _____
 parallelogram _____
 formulae _____
 hectares _____

Find smaller 3-letter words in each of these.

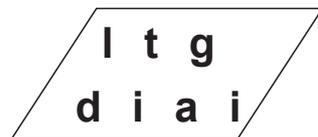
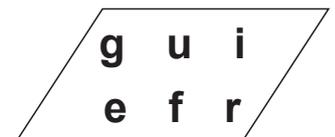
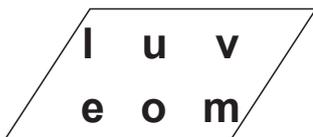
figure _____
 dimensions _____
 parallelogram _____
 formulae _____
 hectares _____
 analogue _____
 area _____
 symmetrical _____
 capacity _____
 calculate _____
 perimeter _____
 digital _____



Copy the list words.

1.	area	
2.	prism	
3.	length	
4.	weighed	
5.	figure	
6.	volume	
7.	digital	
8.	diagonal	
9.	hectares	
10.	conversion	
11.	perimeter	
12.	measure	
13.	calculate	
14.	analogue	
15.	capacity	
16.	centimetre	
17.	formulae	
18.	dimensions	
19.	parallelogram	
20.	symmetrical	

Rearrange the letters in the parallelograms to spell list words.



Mathematics - Unit 3

Dictation

1. Can you bisect that interval at a right angle.
2. Estimate if the rhombus or quadrilateral has the largest area.
3. Place the protractor adjacent to the perpendicular line.

Plurals

Some plurals you add s, others you change letters. Write the plurals for these.

angle _____
 ellipse _____
 axis _____
 radius _____
 vertex _____
 rhombus _____
 polyhedron _____
 compass _____

Solve these anagrams. The answers are list words.

angel _____
 a tee mist _____
 port or cart _____
 vile rant _____
 a six _____
 dance jat _____
 mops cases _____
 raid us _____



Copy the list words.

1.	axis	
2.	angle	
3.	acute	
4.	bisect	
5.	interval	
6.	radius	
7.	ellipse	
8.	estimate	
9.	compasses	
10.	vertex	
11.	intersecting	
12.	rhombus	
13.	differentiate	
14.	quadrilateral	
15.	adjacent	
16.	protractor	
17.	equilateral	
18.	polyhedra	
19.	perpendicular	
20.	dodecahedron	

Choose a word from each row that is a synonym for the first word.

halve	double increase bisect duplicate germinate
sharp	acute blunt rounded obtuse curved
guess	precise exact accurate estimate measured
neighbouring	inaccessible distant furthest remote adjacent
discriminate	equality equivalent differentiate compare resemble
cutting	scoring digging intersecting marking furrowing

Put these words in alphabetical order.

- axis, angle, acute, adjacent, axes

- polyhedral, perpendicular, protractor, pronumeral, plane

- equilateral, estimate, ellipse, equal, edges

- rhombus, radius, revolution, reflex, right

- compasses, cross-section, cube, cylinder, complementary

- symmetry, square, solid, straight, supplementary



Some words are homonyms. That means they sound/spell the same but have different meanings. Write two different meanings for these homonyms.

acute	1.	2.
interval	1.	2.
radius	1.	2.
axis	1.	2.
conductor	1.	2.

The answer to each of these clues can be found in the letters of the list word, in the first column. When you have all the answers, find them in the wordfind. The leftover letters will give you the plural of radius. _ _ _ _ _

List word	Clue	Answer
radius	past tense of say	
axis	an even number	
interval	air opening	
vertex	make an effort	
angle	narrow road or track	
estimate	political community under one government	
polyhedral	save and store away	
ellipse	cause or allow to run over the edge of a container	
compasses	used for washing and cleaning things	
intersecting	put into or between	
rhombus	sixty minutes	
adjacent	take care of	

Find a four letter word in these list words that matches the clue.

- ellipse - edges of mouth opening - lips
- differentiate - pay money for the use of something _____
- equilateral - not on time _____
- estimate - good friend _____
- bisect - religious group _____
- acute - pleasingly pretty _____
- compasses - to go by or move past _____
- adjacent - unit of money _____
- perpendicular - to remain undecided _____

i	i	a	d	i	p
e	n	a	l	r	a
r	s	i	x	u	o
v	e	n	t	o	s
d	r	a	o	h	t
i	t	e	n	d	a
a	e	x	e	r	t
s	p	i	l	l	e



What do these prefixes mean? Write 3 other words with the same prefix.

quadrilateral:		
1.	2.	3.
polyhedra:		
1.	2.	3.
intersecting:		
1.	2.	3.
bisect:		
1.	2.	3.
equilateral:		
1.	2.	3.
dodecahedron:		
1.	2.	3.

Writing Ideas

Draw a treasure map. Write a set of explicit instructions using geometrical terms e.g. Walk 300m at right angles from the road facing east.

Mathematics - Unit 4

Dictation

1. The symbols in this sector are unlike the pattern in the graph.
2. Simplify the equation using the variable pronumeral.
3. A mathematician will prove the algebraic equation of consecutive numbers.

Find and circle the incorrect words. There are 15.

Rewrite the sentences with corrections.

1. Can ewe prove that $5(x - 1) = 15$?

2. Aljebra is often used to describe number pattens.

3. Numbers can replace pronumrals in algebrac expressions.

4. Unlike terms have diffrent algebric parts.

5. The most common grouping cymbals are parenthesis and brakets.

6. Sumtimes we have to egspand then simpliffy an equation.

Snakeword

Solve the clues to find list words that fit into the snakeword. Each word starts with the last one or two letters of the previous word.

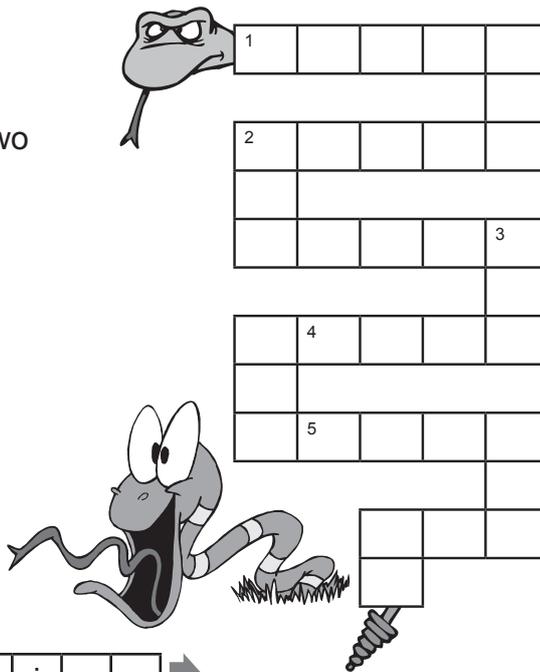
1. Plural of parenthesis

2. Letters used to represent something

3. A section of something

4. Quotient of two numbers

5. Process such as addition



Copy the list words.

1.	prove	
2.	unlike	
3.	expand	
4.	symbols	
5.	sector	
6.	pattern	
7.	average	
8.	equation	
9.	simplify	
10.	pronomeral	
11.	ratio	
12.	percentage	
13.	variable	
14.	operation	
15.	consecutive	
16.	trigonometry	
17.	parenthesis	
18.	parentheses	
19.	algebraic	
20.	mathematician	

▶ p r o v e o n u t i o n ▶

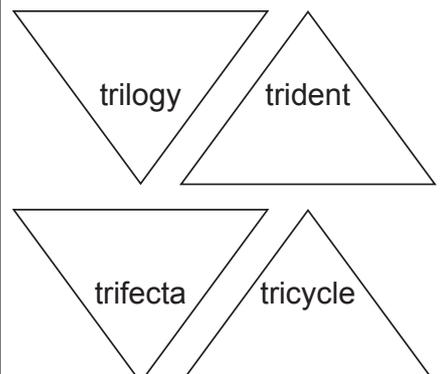
e	e	k	i	u	r	e	m	a
q	v	a	l	n	p	r	a	r
u	n	r	e	r	n	p	l	e
a	o	i	l	a	r	e	o	p
t	i	a	b	t	e	r	e	g
l	p	m	i	i	t	c	e	a
i	f	y	s	o	t	a	n	t
c	e	s	o	l	s	p	n	a
t	a	v	b	m	y	s	d	p
o	r	e	r	a	g	e	e	x

Starting with the letter in the top left hand corner, and only moving horizontally or vertically, find the **first 14 list words**. Each word starts with a letter next to the end of the previous word. Write the words in order as you find them.

1.	8.
2.	9.
3.	10.
4.	11.
5.	12.
6.	13.
7.	14.

Trigonometry is the mathematics dealing with calculations of triangles.

What are these other tri words?



Crossed words Using each of the letters in the box, fill in the squares to make two list words. One letter has been given in each one. The last one has three list words.

tektielpnruan

taaiprooexpnned

eevrsocprto

oeaivteneqaurag

ratrviegeaolnrobmt y

preatrioycfeinltpamgies

Hexwords

Rearrange the letters in each hexagon to make a list word. There is an extra letter in each hexagon, that makes up the answer to the clue.

Clue: to make easy

Answer: _____

Hexagon 1: n s x, d a e, p

Hexagon 2: v r e, p i o

Hexagon 3: a b v i, a r m, e l

Hexagon 4: t o r i, a p

Hexagon 5: t p a, e t l, r n

Hexagon 6: t e a, q o u, i i n

Hexagon 7: f a b, l g a i, c r e

Hexagon 8: u l i k, n y e

Writing Ideas

Use the dot plot graph to explain the number of cars sold in Tom's car yard over one week.

