

Name: _____

Date: _____

Using Metric Units of Area

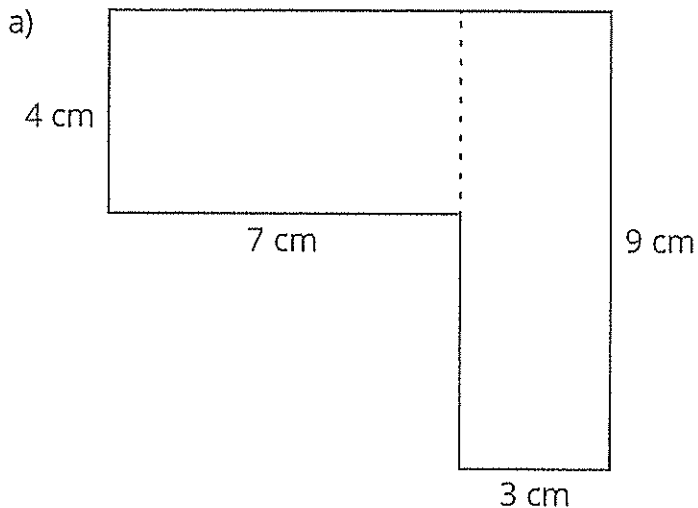
6. Calculate the area of the following rectangles.

a) length 10 cm, width 5 cm _____

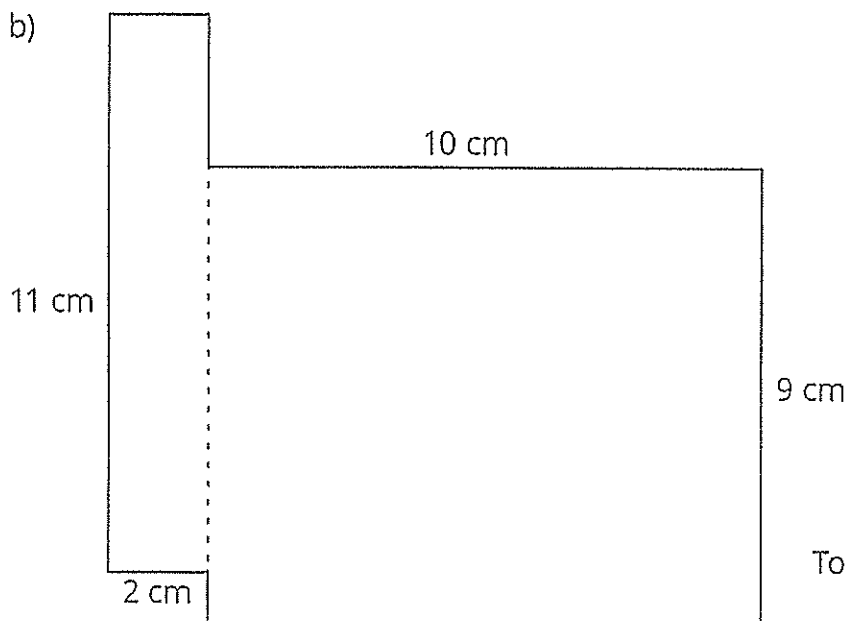
b) length 9 cm, width 4 cm _____

c) length 6 cm, width 3 cm _____

7. Find the total area of these compound shapes.



Total Area: _____



Total Area: _____



Addition

Name: _____

Warm Up

$$\begin{array}{r} 1) \quad 658 \\ + \quad 361 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 635 \\ + \quad 846 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 585 \\ + \quad 945 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad \$4.69 \\ + \quad \$7.63 \\ \hline \\ \hline \end{array}$$

1) 586 people attended a local football match. The next week 739 attended. How many people attended the football over the two weeks.

6) Ahmet went shopping for some art equipment. The cost of each item is as follows:
Paintbrushes: \$9.85 Paper: \$8.47
How much will it cost Ahmet to buy the two items?

2) Marley bought some pigs for her pig farm. On Monday she bought 299 sows and on Wednesday she bought 595. What was the total number of sows Marley bought?

7) Mariam counted migrating birds over two days.
Monday: 298 Tuesday: 519
What was Mariam's total count?

3) Rea counted the sheep in each of two paddocks on her farm. In the first paddock there were 305 sheep and 283 sheep in the second. How many sheep did she count in the two paddocks?

8) Isla added up everything she spent on her 2 day holiday.
Day 1: \$366 Day 2: \$449
How much did Isla spend in total?

4) Kirandeep drove two stages on her vacation. In the first stage she drove 185 km and 321 km in the second stage. How many km did she travel?

9) The number of boys and girls that attended a concert is shown below.
Girls: 458 Boys: 437
How many children attended the concert in total?

5) Two buses took students from the school to the park. There were 105 students on bus 1 and 103 students on bus 2. How many students from school went to the park?

10) Sofia went shopping and bought a top for \$128 and a coat for \$527. How much did Sofia spend all together?

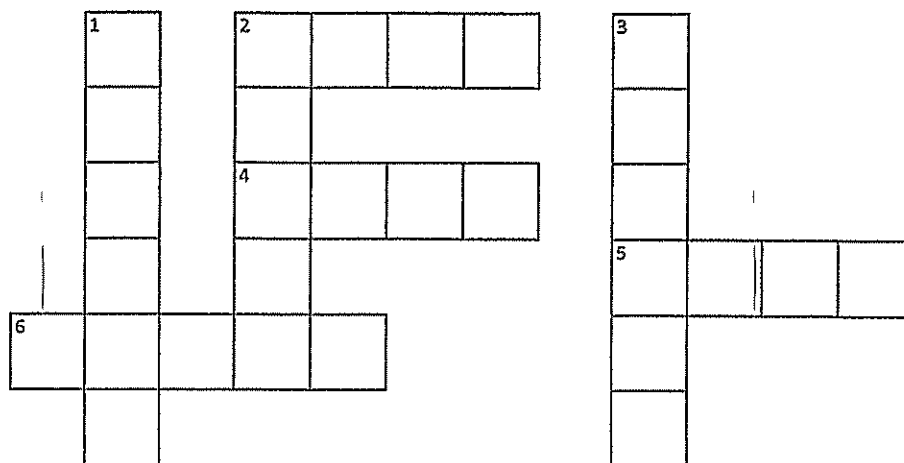
Name:

1x - 10x Tables
2x-10x tables

- | | | | |
|---------------------|---------------------|----------------------|---------------------|
| 1) $2 \times 2 =$ | 26) $5 \times 7 =$ | 51) $6 \times 5 =$ | 76) $4 \times 9 =$ |
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| 25) $2 \times 3 =$ | 50) $3 \times 7 =$ | 75) $1 \times 2 =$ | 100) $2 \times 9 =$ |

Written methods – subtraction

- 3 Use a calculator to add each group of numbers. Turn your calculator upside down to see a word on the screen. Use the key below to help you identify the letters. Write each word in the correct place in the crossword puzzle.



CLUES

Across

2. $3\,025 + 1\,589 =$ _____
 4. $4\,456 + 1\,207 =$ _____
 5. $2\,776 + 2\,861 =$ _____
 6. $12\,824 + 32\,251 =$ _____

Down

1. $34\,569 + 342\,047 =$ _____
 2. $20\,786 + 36\,548 =$ _____
 3. $456\,789 + 120\,556 =$ _____

Key

0	1	3	4	5	6	7	8
O	I	E	H	S	G	L	B

- 4 The answer is 42. What could the missing numbers be? Come up with 5 possibilities:

	H	T	U
-			
		4	2

	H	T	U
-			
		4	2

	H	T	U
-			
		4	2

	H	T	U
-			
		4	2

	H	T	U
-			
		4	2

Written methods – adding and subtracting decimals

When we add and subtract decimals we follow the same rules we use when working with whole numbers. We need to make sure we line up the place values and the decimal points:

	T	U	T
	3	1	3
-	1	7	2
	2	6	1

1 Estimate and solve these addition problems. Remember to put the decimal point into your answers:

e:

	T	U	T
	5	4	1
+	3	1	3

e:

	T	U	T
	3	2	3
+	5	8	1

e:

	T	U	T
	4	8	4
+	4	1	3

e:

	T	U	T
	2	7	8
+	3	9	3

e:

	T	U	T	H
	5	2	1	7
+	3	5	9	2

e:

	T	U	T	H
	4	5	1	
+	1	4	0	5

e:

	T	U	T	H
	5	3	8	9
+	1	2	1	4

e:

	T	U	T	H
	3	2	4	1
+	1	9	3	3

2 Estimate and solve these subtraction problems. Remember to put the decimal point into your answers:

e:

	T	U	T
	8	4	3
-	3	2	3

e:

	T	U	T
	9	0	8
-	5	3	2

e:

	T	U	T
	7	6	3
-	2	0	4

e:

	T	U	T
	9	7	
-	3	2	3

3 Bart finished his race in a time of 10.67 secs. Lisa finished in 11.24 secs. How much faster was Bart?

Relative pronouns

A **relative pronoun** introduces a relative clause to tell us more about people and things. The pronoun 'relates' the clause back to a noun, noun group or clause. For example:

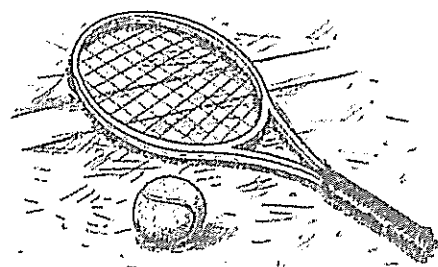
The runner who came first in the race fell across the finish line.

Which runner fell across the finish line? The runner **who** came first in the race.

1 Complete each sentence with a relative pronoun from the box.

- a I can't decide _____ flavour is best.
- b The coach didn't know _____ turn it was to collect the tennis balls.
- c The woman _____ was best prepared scored the most points.
- d The yacht, _____ had sailed from Queensland, tied up in the marina.
- e Marley was confused about _____ the card was from.

who
which
whose
whom
that



2 Use who, whom and whose to refer to people. Whose may also refer to things and animals. Complete the sentences below with a relative pronoun, and circle the noun the pronoun refers to.

- a I'll buy a gift for the neighbour _____ helped us move.
- b Nic is in the team _____ captain is his cousin.
- c I don't mind _____ you ask to the party.
- d He addressed the crowd, most of _____ were silent.
- e There's the girl _____ sister is in our class.

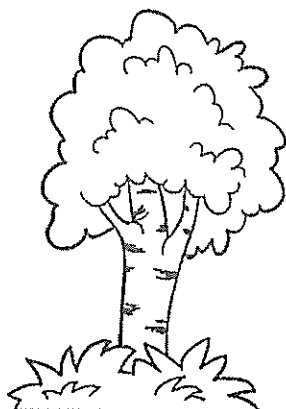


Clues in the text can help us understand the meaning of difficult words.

Read the passage.

Circle where thylacines once lived.

Put a box around where thylacines were last seen in large numbers.



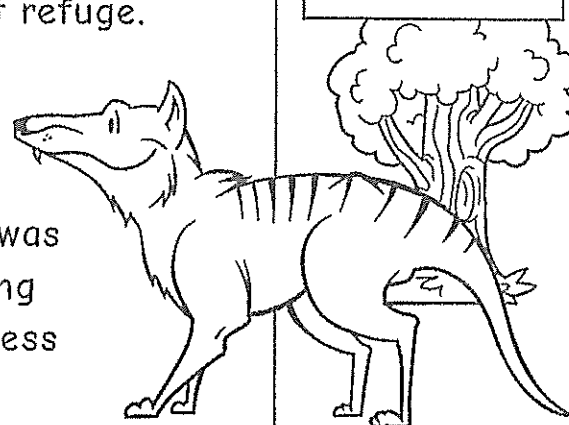
On the Edge of Extinction

We know that the thylacine once lived in New Guinea and mainland Australia because fossils have been found in these places. But these populations died out—killed by the introduced dingoes, or wild dogs, of the Aboriginal peoples. The island of Tasmania then became the thylacine's last refuge.

When European farmers arrived in Tasmania, they believed the thylacines were responsible for killing sheep. In 1888, a bounty was put on the thylacine's head. Killing them was now a profitable business encouraged by the government.

Colour the word that shows that dingoes were not always native to Australia.

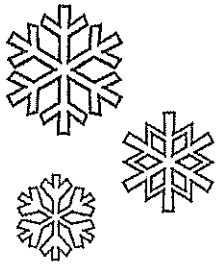
Underline a word that shows that people received payment for killing thylacines.



Circle the correct answers.

- 1 Which word in the passage suggests that dingoes have not always been native Australian animals?
 a Aboriginal b fossils c introduced d populations
- 2 What does the word *refuge* mean?
 a something that is worthless b a place of protection or safety
 c to disagree with something d someone from another place
- 3 What is the clue to question 2's answer? The word *refuge* refers to the island of Tasmania, which was ...
 a where European farmers hunted thylacines.
 b where thylacines started killing sheep.
 c where people made money out of thylacines.
 d the last place thylacines lived in large numbers.
- 4 What is a bounty?
 a a reward b a cover c a rope d a leash

Read the passage.



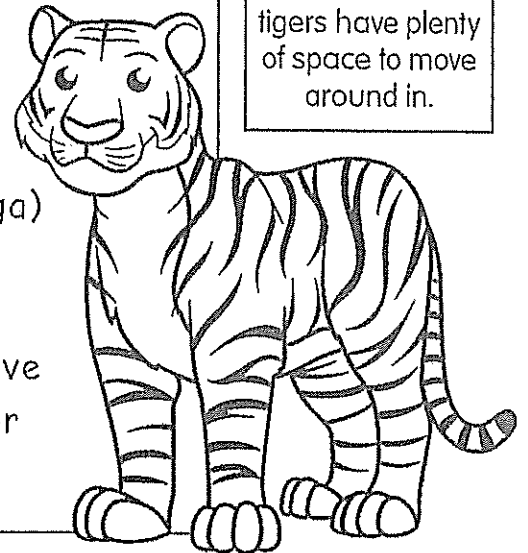
Circle the word that suggests that the Siberian tigers were difficult to find.

Put a box around the word that describes people who care for the environment.

More tigers lurked in the Siberian woods than anyone thought. Finding 600 instead of an expected 300 has increased the chance that the magnificent Siberian tiger will survive.

Conservationists were thrilled to find out that the Siberian tiger population was twice as big as believed.

Siberian tigers live in the dense forests of Siberia. This cold and wild area is called the taiga (TIE-ga) and is vast enough to help the tigers hide from us. Poachers kill some, and forestry and mining have an impact on their habitat. But for now, the tiger seems safe.



Underline the word that suggests that the trees in the Siberian forest grow close together.

Colour the word that suggests that the Siberian tigers have plenty of space to move around in.

5 Use the clues in the boxes to help you explain the meanings of the following words:

a lurked _____

b dense _____

c vast _____

6 Which word in the passage names people who care about the natural environment?

7 Which word in the passage names people who kill wild animals illegally?

List 1 Write the word.

café

pasta

ballet

studio

gelato

genre

opera

pizza

mousse

croissant

cliché

sauté

macaroni

soprano

sabotage

brunette

rapport

dossier

scenario

baguette

2 Fill in the missing syllables.

mac-a-ro-_____

_____-la-to

bru-_____

_____-er-a

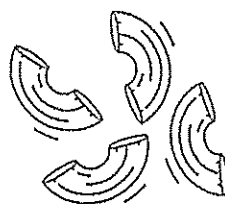
bal-_____

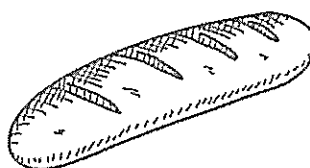
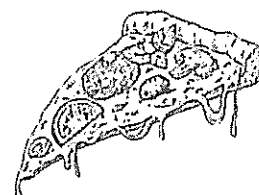
_____-port

so-_____-o

gen-_____

3 Name.



4 Unscramble these list words.

acraomin _____

étuas _____

doutis _____

ponosar _____

stapa _____

uebteagt _____

droesis _____

logeta _____

zapiz _____

prtapro _____

otbagase _____

oiranecs _____

5 Match the clue with the list word.

a person with brown hair

b

a category of film, writing, music, etc.

g

a play that is entirely sung

o

dough base with tomato and cheese

p

an expression that is overused

c

a form of dance

b

to fry lightly in oil

s

a place to eat and drink coffee

c

a long, thin loaf of bread

b

the workshop of an artist

s

Italian ice-cream

g

Challenge words

6 Write the word.

spaghetti

lasagne

saboteur

entrée

staccato

chauffeur

entrepreneur

restaurateur

extravaganza

reconnaissance

7 Word sort. These words are based on other languages. Put them in the correct list.

Italian

French

s

s

l

e

s

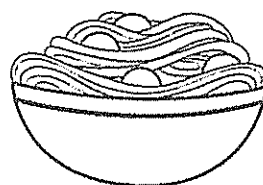
c

e

e

r

r



8 Another way to say it. Which challenge word could replace the underlined word?

Our school was putting on a musical spectacular.

First I had a starter, and then I had a main course.

Our driver drove us from our house to the wedding.

We completed our exploration of the camp site before setting up our tent.

5 Underline the spelling mistakes. Write the word correctly.

It is illegal to buy, sell or use ellicit items.

My impateince grew the naughtier the children became.

Without my glasses, all I could see were indistincte shapes.

Our preparation for the camping trip was completely inadeqwate.

His school attendance has been very inconsesent this year.

It was enconsiderate for Callum not to save a seat for me.

She did not like camping because of her irrational fear of wombats.

Her indesisiv nature makes it difficult for her to choose something.

Challenge words

6 Write the word.

irreversible

incompatible

imperceptible

indestructible

inefficient

inoffensive

inappropriate

inconceivable

inconspicuous

indistinguishable

7 Word clues. Which challenge word matches?

not able to be damaged or broken

not likely to be noticed or seen

not right for the time or place

impossible to imagine or understand

not causing offense

impossible to change

8 Complete each sentence.

His comments were _____ and didn't upset anyone.

I groaned as I thought of the _____ damage I had caused.

The two computers were _____, so we worked on paper instead.

When wearing the same clothes, the twins were _____ from each other.

Prefixes – in, im, ir, il

6.35

List 1 Write the word.

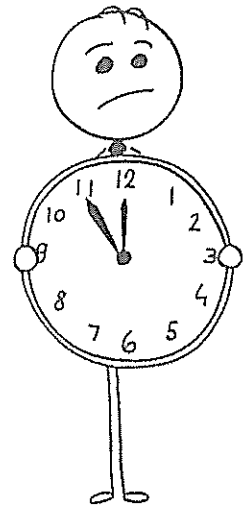
improper	_____
impersonal	_____
inability	_____
injustice	_____
indistinct	_____
immovable	_____
impossible	_____
incapable	_____
inconsistent	_____
independent	_____
illicit	_____
irrational	_____
immaturity	_____
inadequate	_____
irregularly	_____
impatience	_____
indecisive	_____
irresistible	_____
inconvenient	_____
inconsiderate	_____

2 Word clues. Which list word matches?

without reason or sense	_____
free, not ruled by another	_____
not able to happen	_____
not thinking of another	_____
impossible to resist	_____
not clearly defined	_____
not permitted by law	_____
not following a pattern	_____

3 Missing letters. Write the missing letters.

ir _ eg _ lar _ y
 _ n _ ust _ _ e
 i _ conv _ ni _ nt
 in _ ap _ _ le
 i _ m _ tur _ _ y
 _ _ dep _ nde _ t
 _ _ ad _ _ ua _ _
 _ _ pati _ _ _ _
 _ _ consid _ _ _ _



4 Sort the words.

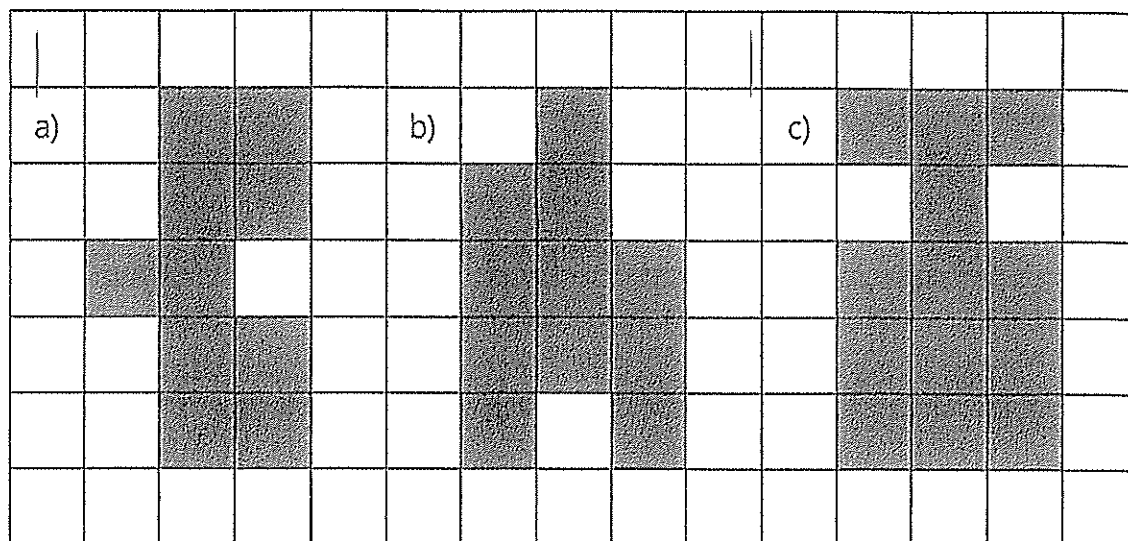
in	im	ir	il

Name: _____

Date: _____

Using Metric Units of Area

1. Find the area of these shapes in cm^2 .



a) Area = _____ b) Area = _____ c) Area = _____

2. Choose the most suitable unit of measure (cm^2 , m^2 , km^2) for each area.

- | | | | |
|---------------------------|-------|--------------------|-------|
| a) the classroom floor | _____ | d) the whiteboard | _____ |
| b) an envelope | _____ | e) a book cover | _____ |
| c) the suburb you live in | _____ | f) a netball court | _____ |

3. One hectare (ha) = 10 000 m^2 . How many hectares in:

- | | | | |
|------------------------|-------|-------------------------|-------|
| a) 30 000 m^2 | _____ | c) 190 000 m^2 | _____ |
| b) 80 000 m^2 | _____ | d) 430 000 m^2 | _____ |

4. Write the following areas in m^2 .

- | | | | |
|---------|-------|----------|-------|
| a) 8 ha | _____ | c) 26 ha | _____ |
| b) 2 ha | _____ | d) 78 ha | _____ |

5. Underline the areas that you would use to measure in hectares.

- | | |
|-------------------|---------------|
| a) a tennis court | c) a farm |
| b) a cricket oval | d) a footpath |



Name:

Adding three numbers

1)

Harry completed three laps of a circuit. Harry's lap times were 24 minutes, 18 minutes, and 23 minutes. What was Harry's total time?

2)

Macy has 17 cards. Ben has 2 more than Macy. Susie has 5 less than Ben. How many cards do they have altogether?

3)

All the students caught a bus to the zoo. There were 60 students on bus 1, 69 students on bus 2 and 84 students on bus 3. How many students went to the zoo?

4)

The weight of three boxes is shown.

Box 1: 76 kg Box 2: 86 kg Box 3: 96 kg

What is the total weight of the three boxes?

5)

To calculate the perimeter of a triangle, add the length of each side. What is the perimeter of a triangle with 67 cm, 79 cm and 83 cm sides?

6)

There are 67 sheep in each of three paddocks on a farm. How many sheep on the farm?

7)

Number of people who went for a camel ride on Monday.

Morning: 27 Midday: 43 Afternoon: 36

How many people went for a camel ride on Monday?

8)

Jackson bought a shirt for \$33, a pair of pants for \$24 and a pair of shoes for \$45. How much did Jackson spend?

9)

Tim earned \$57 on Monday, \$78 on Tuesday and \$89 on Wednesday. How much did Tim earn over the three days?

10)

A length of rope is cut into 3 pieces.

Piece 1: 85 cm Piece 2: 95 cm Piece 3: 97 cm

What was the length of the rope before it was cut?

Name: _____

1x - 10x Tables
2x-10x tables

- | | | | |
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Written methods – addition

	H	T	U
	5	6	2
+	1	4	5
			7
	1	0	0
	6	0	0
	7	0	7

We can also add each place value separately and then add these together:

$$2 + 5 = 7$$

$$60 + 40 = 100$$

$$500 + 100 = 600$$

$$7 + 100 + 600 = 707$$

3 Solve these addition problems using a written strategy of your choice:

e:

a

	H	T	U
	3	8	5
+	4	2	3

e:

b

	H	T	U
	4	1	2
+	2	3	8

e:

c

	H	T	U
	9	2	2
+		6	9

e:

d

	H	T	U
	1	8	8
+	4	1	4

e:

e

	H	T	U
	7	2	4
+		2	9

e:

f

	H	T	U
		3	6
+	1	4	4

4 Can you work out what the missing numbers should be? Remember there may have been some regrouping!

Guess, check and improve will help me here.

a

	H	T	U
	4		5
+		2	
	8	5	7

b

	H	T	U
	¹ 1	¹ 5	9
+	2	4	
		0	6

c

	H	T	U
	5	¹ 6	7
+			9
	9	9	



DISCOVER

Written methods – subtraction

	H	T	U
	9	8	14
-	2	7	8
	7	1	6

First we estimate: $1000 - 300 = 700$

We start with the units. We can't take 8 away from 4 so we must rename one of the tens as units. We now have 14 units.

14 subtract 8 is 6 so we put the 6 in the units column.

8 tens subtract 7 tens is 1 ten so we put a 1 in the tens column.

We subtract the hundreds. 9 hundred subtract 2 hundred is 7 hundred. Put a 7 in the hundreds column.

We check the answer against our estimate.

1 Complete the subtraction problems:

e:

	Th	H	T	U
	4	9	8	2
-		1	5	3

b e:

	Th	H	T	U
	2	9	5	1
-		8	7	8

c e:

	Th	H	T	U
	3	8	7	2
-		5	8	6

When a problem asks us to find the difference, we subtract. We always start with the larger number.

Showtown	4129 km	Tidings	1233 km
Normanville	3262 km	Ringer	7869 km
Roper	7419 km	Harpville	486 km
Ace Bay	1226 km	Eagle Bay	595 km

2 Solve these to find the difference problems:

a How far from Showtown to Ringer?

	Th	H	T	U
-				

b What is the distance from Normanville to Tidings?

	Th	H	T	U
-				

c What is the distance from Roper to Eagle Bay?

	Th	H	T	U
-				

d How far from Normanville to Ace Bay?

	Th	H	T	U
-				

Technical nouns

Technical nouns help us write about specific topics. They are specialised words that carry a lot of meaning. For example:

molecule, decimal, nebula, mammal

1 Match the technical noun to its topic.

forklift asteroid surgery lifeboat supernova
eclipse abdomen diagnosis subway

Astronomy	Medicine	Transport

2 Complete the sentences with technical nouns from the box.

monotremes humidity bandwidth platoon

- a It's such a warm, sticky day. The _____ must be very high.
- b _____ lay eggs but raise their young in pouches, like kangaroos do.
- c The internet seems slow today, even though there is plenty of _____.
- d The commander marched with his _____ through heavy rain.

3 Match the technical noun to its definition.

virology vacuum voltage vixen

- a _____: the force of electric current, measured in volts
- b _____: the study of viruses
- c _____: a female fox
- d _____: a space that doesn't contain any matter

Audience and purpose

NONFICTION

To help identify an author's purpose, work out who the text was written for. The author's choice of words can also reveal what their purpose is — to inform, persuade, instruct or entertain.

Read the passage.

Circle Belinda Tochner's job title.

Put a box around the company the complaint is being made against.

Underline the sentence that expresses the purpose of the letter.

Letter of Complaint

14 Railway Parade, Doncaster QLD 4000

Belinda Tochner

Consumer Relations Manager

SuperSafe Insurance Ltd

Dear Ms Tochner

COMPLAINT

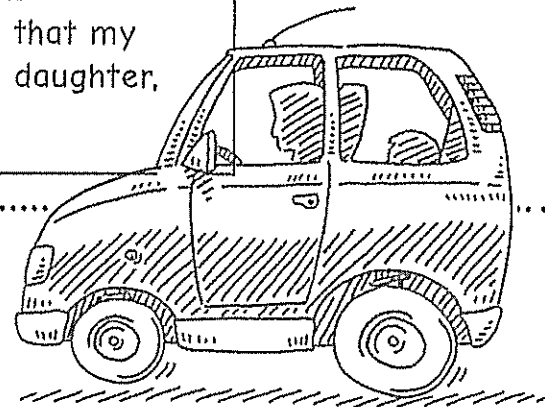
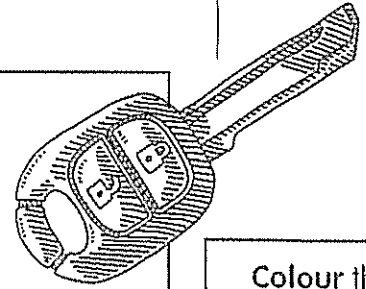
Policy No: 98765432

I am writing to complain about my car insurance claim being rejected.

On 22 November 2009, I arranged car insurance with your company by telephone. On 25 November, I telephoned again to ask that my insurance also cover my 20-year-old daughter, as she would also be driving the car.

Colour the date of the first phone call.

Highlight the reason the writer made a second phone call.

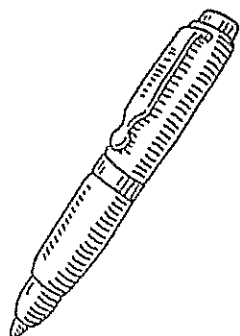


Circle the correct answers.

- 1 Who is the target audience for the letter?
 - a the owner of SuperSafe Insurance
 - b the Consumer Relations Manager of Supersafe Insurance
 - c the Chief Executive Officer of SuperSafe Insurance
 - d an accountant at SuperSafe Insurance
- 2 What is the purpose of the letter? The writer is complaining that ...
 - a her daughter is driving her car.
 - b Ms Tochner did not answer her phone call.
 - c SuperSafe Insurance wrongfully rejected her insurance claim.
 - d SuperSafe Insurance wrongfully rejected her daughter's insurance claim.
- 3 What is the tone of the letter?
 - a firm and polite
 - b angry and abusive
 - c lighthearted and friendly
 - d nervous and embarrassed

Audience and purpose

Read the passage.



Circle how the writer feels about having her claim rejected.

Highlight how the writer attempts to prove that her claim was mistakenly rejected.

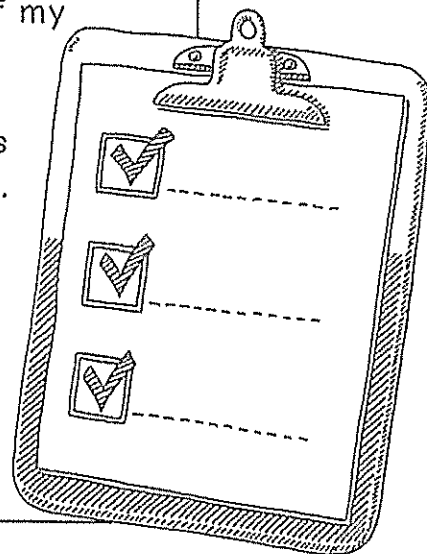
I am most upset that when I telephoned on 14 January this year to make a claim for an accident that my daughter had had in my car, I was informed that my claim was rejected. The reason provided was the policy did not cover my daughter. Furthermore, the claims consultant said there was no record that my policy had been extended, to my daughter or to anyone else.

However, as I noted earlier, I did call SuperSafe Insurance to extend the insurance. To prove this, I have included with this letter a copy of my telephone bill, which shows that the call was made to your company. I have underlined the call on the bill. The claims consultant I spoke to was Ben Wilkinson.

I believe you made a mistake in not changing my insurance policy, and I would like you to fix this and pay the claim I have made. I look forward to hearing from you and to having this matter resolved as quickly as possible.

Underline a clause that shows that the writer is certain that SuperSafe Insurance is in the wrong.

Colour what the writer expects SuperSafe Insurance to do about her claim.



- 4 Which word in the passage expresses how the writer feels about her claim being rejected?

- 5 Carefully explain how the writer attempts to persuade her audience that SuperSafe Insurance was mistaken in rejecting her claim.

- 6 If you were Ms Tochner, would you be offended by the language the writer has used in her letter? Give reasons for your answer.

List 1 Write the word.

semifinal	_____
semicircle	_____
extramural	_____
circumvent	_____
antismoking	_____
antidote	_____
semiformal	_____
antifreeze	_____
antihero	_____
semidarkness	_____
semicolon	_____
semiskilled	_____
antisocial	_____
anticlimax	_____
semiprecious	_____
antislavery	_____
antiseptic	_____
semidetached	_____
antibiotic	_____
circumscribe	_____

3 Fill in the missing syllables.

sem-i-_____-ness
 ex-_____-mur-_____
 _____-i-cir-_____
 sem-_____-_____-lon
 _____-i-de-tached
 sem-i-_____-nal
 an-_____-he-ro
 an-_____-smok-_____

2 Sort the words.

anti

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

circum

_____	_____
-------	-------

extra

_____	_____
-------	-------

semi

_____	_____
_____	_____
_____	_____
_____	_____

- 4 **Meaning.** Which list word means?
 a substance that stops poison from working _____
 one half of a circle _____

_____ to find a way around an obstacle

_____ a substance that lowers the freezing point of a liquid such as water

_____ against slavery

_____ a disappointingly weak conclusion to an event

Suffixes – ancy, ency

6.36

List 1 Write the word.

agency _____
 decency _____
 fluency _____
 emergency _____
 vacancy _____
 infancy _____
 urgency _____
 frequency _____
 hesitancy _____
 presidency _____
 accountancy _____
 competency _____
 excellency _____
 truancy _____
 dependency _____
 consistency _____
 consultancy _____
 leniency _____
 occupancy _____
 despondency _____

2 Sort the words.

ancy	ency

3 Chunks. Rearrange the chunks to make a list word.

den si cy pre _____
 pe cy ten com _____
 oun cy tan acc _____
 sis ten con cy _____
 pen cy den de _____

3 Word clues. Which list word matches?

an unfilled space
 very early childhood
 a serious situation that calls for quick action
 feeling doubt or uncertainty
 the number of times an event happens
 not strict with rules
 hopelessness
 being away from school without permission

5 Complete each sentence with a list word.

There was a _____ at the hotel, so we booked in for the night.

I could hear the _____ in his voice and knew that the matter was serious.

Heads of state are often referred to as "Your _____".

My older cousin is studying _____ at university.

The _____ of earthquakes in our area has risen in the last year.

Rochelle was going to run for the class _____.

Challenge words

6 Write the word.

transparency _____

buoyancy _____

deficiency _____

expediency _____

proficiency _____

coherency _____

efficiency _____

complacency _____

absorbency _____

ascendancy _____

7 Word clues. Which challenge word matches?

the quick performance of a task

being easy to understand

being able to soak up moisture

being able to see through

lack

able to float

8 Complete each sentence.

She had to take special tablets to supplement her calcium _____.

Our _____ allows us to float in water.

Luke's _____ at completing his homework meant he had more time to practise his karate skills.

When it comes to playing video games, he has a high level of _____.

After playing badly in the first half, they gained the _____ in the second half.