BROAD HORIZON
TUITION

11+ Tuition

Year 3

Week 04

Name: _____

Date: _____

Contents

Starter Task – Quick Revision

Task 1 - spelling

Write the words read out by your teacher with the **correct** spelling.

1) …….

2) …….

3) …….

4) …….

5) …….

Task 2 – Definitions

Write out the definitions of the words read out by your teacher.

(The definitions you should have learnt last week.)

1)……

……

2)……

……

Task 3 – Maths

Place Value

Write the numbers in **expanded** form.

The first one has been done for you.

1) 394 = _____300 + 90 + 4_____

2) 6009 =_____

3) 90401 =_____

Write the numbers in **standard** form.

The first one has been done for you.

4) 400 + 60 + 5 = ___465___

5) 4000 + 900 + 8 = _____

6) 2000 + 400 +3000 + 50 + 30 + 2 = _____

Addition and Subtraction

7) 346 + 815 =

8) 854 + 633 =

9) 743 – 678 =

10) 990 – 633 =

Task 4 - times tables

You will have 150 seconds to complete the table below from memory.

1) 4x 12 =	**2)** 4 x 5 =	**3)** 4 x 3 =
4) 3 x 6 =	**5)** 6 x 0 =	**6)** 8 x 3 =
7) 3 x 10 =	**8)** 3 x 2 =	**9)** 3 x 11 =
10) 3 x 8 =	**11)** 3 x 11 =	**12)** 3 x 5 =
13) 3 x 7 =	**14)** 3 x 1 =	**15)** 3 x 6 =

Maths

Mental Arithmetic

MENTAL ARITHMETIC : YEAR 3 : AUTUMN TERM : WEEK 4				
Paper 7	Answer		Paper 8	Answer
1. How many are 15 and 35 altogether?			1. How many are 45 and 15 altogether?	
2. How many are 17 and 23 altogether?			2. How many are 33 and 27 altogether?	
3. What must I add to 20 to make 100.			3. What must I add to 40 to make 100.	
4. What must I add to 90 to make 100.			4. What must I add to 80 to make 100.	
5. Take 9 from 50.			5. Take 9 from 60.	
6. Take 9 from 100.			6. Take 9 from 200.	
7. How many less than 49 is 30?			7. How many less than 59 is 30?	
8. How many less than 53 is 20?			8. How many less than 61 is 20?	
9. What is 100 less than 400?			9. What is 100 less than 500?	
10. What is 100 less than 432?			10. What is 100 less than 541?	
Comment:			Comment:	

Rounding Numbers Explanation

Lo: To round whole numbers to the nearest 10, 100 and 1000.

To round decimal numbers to the nearest whole number.

To round decimal numbers to the nearest 2 or 3 decimal places.

Step 1: Identify the number you want to round. In the example below we are rounding to the nearest ten, so the number we want to round is 7.

Step 2: Now to help us round the 7, we look at the number next to it which is a 6.

RULE: If the number next to it is between 0 and 4 then we keep the number we want to round the same. (our 7 would remain as a 7)

If the number next to it is between 5 and 9 then our number will round up to the next number. (our 7 would then become an 8)

According to the rule the number next to our 7 is a 6, so our 7 will become an 8

Step 3: Change all other numbers after the number we wanted to round to zero's.

	Th	H	T	U
Question	4	5	7	6
	Th	H	T	U
Answer	4	5	8	0

Please note: When rounding decimals, in step 3, instead of changing the numbers to zero's, you simply remove all the numbers after the number you wanted to round.

Example: in 4.589 if we want to round the 5 then our 5 will become a 6 according to the rule and we will remove all the numbers after it. **Answer = 4.6**

Round to the nearest ten above and below, and circle the rounded number that is closest to the given number.

1)	10	16	20	6)		53	
2)		74		7)		33	
3)		16		8)		31	
4)		41		9)		92	
5)		56		10)		12	

Round to the nearest ten above and below, and circle the rounded number that is closest to the given number.

1)	370	372	380	6)		478	
2)		922		7)		562	
3)		919		8)		965	
4)		191		9)		416	
5)		322		10)		965	

Round each number to the nearest ten.

1)	78	_____	6)	42	_____
2)	81	_____	7)	75	_____
3)	32	_____	8)	24	_____
4)	52	_____	9)	22	_____
5)	69	_____	10)	73	_____

Round each number to the nearest ten.

1)	68	_____	6)	17	_____
2)	28	_____	7)	66	_____
3)	47	_____	8)	85	_____
4)	58	_____	9)	52	_____
5)	42	_____	10)	84	_____

Round each number to the nearest ten.

1)	43	_____	6)	27	_____
2)	31	_____	7)	32	_____
3)	45	_____	8)	81	_____
4)	52	_____	9)	48	_____
5)	83	_____	10)	58	_____

Round each number to the nearest ten.

1)	21	_____	6)	69	_____
2)	45	_____	7)	82	_____
3)	86	_____	8)	57	_____
4)	66	_____	9)	48	_____
5)	34	_____	10)	27	_____

Round each number to the nearest ten.

1)	63	_____	6)	71	_____
2)	42	_____	7)	86	_____
3)	53	_____	8)	82	_____
4)	88	_____	9)	15	_____
5)	84	_____	10)	63	_____

Round each number to the nearest ten.

1)	79	_____	6)	31	_____
2)	35	_____	7)	42	_____
3)	45	_____	8)	23	_____
4)	23	_____	9)	65	_____
5)	87	_____	10)	84	_____

Round each number to the nearest ten.

1)	69	_____	6)	35	_____
2)	94	_____	7)	94	_____
3)	73	_____	8)	46	_____
4)	78	_____	9)	93	_____
5)	39	_____	10)	85	_____

Round each number to the nearest ten.

1)	666	_____	6)	922	_____
2)	455	_____	7)	992	_____
3)	629	_____	8)	197	_____
4)	847	_____	9)	228	_____
5)	511	_____	10)	629	_____

Round each number to the nearest ten.

1)	59	_____	6)	96	_____
2)	86	_____	7)	38	_____
3)	42	_____	8)	51	_____
4)	44	_____	9)	58	_____
5)	82	_____	10)	19	_____

Round each number to the nearest ten.

1)	855	_____	6)	734	_____
2)	252	_____	7)	673	_____
3)	624	_____	8)	987	_____
4)	672	_____	9)	534	_____
5)	159	_____	10)	427	_____

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

1)	600	627	700	6)		381	
2)		695		7)		814	
3)		424		8)		543	
4)		994		9)		739	
5)		743		10)		851	

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

1)	6,700	6,713	6,800	6)		1,329	
2)		6,762		7)		9,863	
3)		5,365		8)		5,643	
4)		9,896		9)		7,326	
5)		8,632		10)		6,865	

Round each number to the nearest hundred.

1)	643	_____	6)	534	_____
2)	862	_____	7)	184	_____
3)	493	_____	8)	379	_____
4)	738	_____	9)	853	_____
5)	269	_____	10)	733	_____

Round each number to the nearest hundred.

1)	791	_____	6)	531	_____
2)	324	_____	7)	686	_____
3)	137	_____	8)	556	_____
4)	362	_____	9)	293	_____
5)	582	_____	10)	496	_____

Round each number to the nearest hundred.

1) 775 _____

2) 859 _____

3) 389 _____

4) 912 _____

5) 684 _____

6) 242 _____

7) 879 _____

8) 744 _____

9) 576 _____

10) 473 _____

Round each number to the nearest hundred.

1) 9,244 _____

2) 9,522 _____

3) 4,791 _____

4) 1,479 _____

5) 3,274 _____

6) 4,217 _____

7) 5,716 _____

8) 7,372 _____

9) 1,643 _____

10) 4,923 _____

Round each number to the nearest hundred.

1)	444	_____	6)	349	_____
2)	797	_____	7)	174	_____
3)	141	_____	8)	522	_____
4)	321	_____	9)	881	_____
5)	864	_____	10)	742	_____

Round each number to the nearest hundred.

1)	647	_____	6)	645	_____
2)	657	_____	7)	869	_____
3)	283	_____	8)	465	_____
4)	774	_____	9)	662	_____
5)	494	_____	10)	716	_____

Round each number to the nearest hundred.

1)	917	_____	6)	187	_____
2)	451	_____	7)	157	_____
3)	538	_____	8)	739	_____
4)	383	_____	9)	858	_____
5)	483	_____	10)	996	_____

Round each number to the nearest hundred.

1)	2,183	_____	6)	9,182	_____
2)	5,748	_____	7)	5,865	_____
3)	6,173	_____	8)	6,325	_____
4)	4,364	_____	9)	9,613	_____
5)	1,598	_____	10)	7,427	_____

Round each number to the nearest hundred.

1)	155	_____	6)	228	_____
2)	513	_____	7)	529	_____
3)	944	_____	8)	129	_____
4)	545	_____	9)	136	_____
5)	799	_____	10)	348	_____

Round each number to the nearest hundred.

1)	5,911	_____	6)	8,989	_____
2)	9,615	_____	7)	4,873	_____
3)	6,514	_____	8)	4,971	_____
4)	8,534	_____	9)	1,395	_____
5)	8,465	_____	10)	7,148	_____

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	8,000	8,163	9,000	6)	_____	6,842	_____
2)	_____	9,541	_____	7)	_____	2,194	_____
3)	_____	5,114	_____	8)	_____	6,376	_____
4)	_____	8,453	_____	9)	_____	7,599	_____
5)	_____	8,579	_____	10)	_____	7,736	_____

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	44,000	44,137	45,000	6)	_____	74,219	_____
2)	_____	46,545	_____	7)	_____	92,258	_____
3)	_____	17,296	_____	8)	_____	36,414	_____
4)	_____	98,236	_____	9)	_____	89,115	_____
5)	_____	24,921	_____	10)	_____	12,966	_____

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	8,000	8,163	9,000	6)	_____	6,842	_____
2)	_____	9,541	_____	7)	_____	2,194	_____
3)	_____	5,114	_____	8)	_____	6,376	_____
4)	_____	8,453	_____	9)	_____	7,599	_____
5)	_____	8,579	_____	10)	_____	7,736	_____

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	44,000	44,137	45,000	6)	_____	74,219	_____
2)	_____	46,545	_____	7)	_____	92,258	_____
3)	_____	17,296	_____	8)	_____	36,414	_____
4)	_____	98,236	_____	9)	_____	89,115	_____
5)	_____	24,921	_____	10)	_____	12,966	_____

Round each number to the nearest thousand.

1) 3,729 _____

2) 8,844 _____

3) 3,938 _____

4) 4,132 _____

5) 2,461 _____

6) 6,935 _____

7) 3,657 _____

8) 2,317 _____

9) 6,953 _____

10) 7,274 _____

Round each number to the nearest thousand.

1) 71,594 _____

2) 93,589 _____

3) 92,614 _____

4) 85,413 _____

5) 86,118 _____

6) 94,995 _____

7) 75,152 _____

8) 83,526 _____

9) 62,634 _____

10) 98,775 _____

Round each number to the nearest ten

1) £ 764.46 £_____

2) £ 734.46 £_____

3) £ 485.77 £_____

4) £ 486.27 £_____

5) £ 932.56 £_____

6) £ 172.16 £_____

7) £ 253.22 £_____

8) £ 236.86 £_____

9) £ 191.96 £_____

10) £ 351.56 £_____

Round each number to the nearest ten

1) £ 5,126.21 £_____

2) £ 7,236.66 £_____

3) £ 3,327.43 £_____

4) £ 4,411.66 £_____

5) £ 8,653.43 £_____

6) £ 1,296.64 £_____

7) £ 1,828.45 £_____

8) £ 9,242.23 £_____

9) £ 9,458.61 £_____

10) £ 6,418.53 £_____

Round each number to the nearest ten

1) £ 962.99 £_____

2) £ 713.14 £_____

3) £ 537.39 £_____

4) £ 989.53 £_____

5) £ 517.87 £_____

6) £ 554.76 £_____

7) £ 861.26 £_____

8) £ 557.45 £_____

9) £ 363.51 £_____

10) £ 472.75 £_____

Round each number to the nearest ten

1) £ 3,196.99 £_____

2) £ 5,945.37 £_____

3) £ 7,992.33 £_____

4) £ 6,814.28 £_____

5) £ 7,244.54 £_____

6) £ 2,512.32 £_____

7) £ 1,729.27 £_____

8) £ 7,578.69 £_____

9) £ 7,472.56 £_____

10) £ 8,941.58 £_____

English – Comprehension

Paper 9

Chips

Out of the paper bag
Comes the hot breath of the chips
And I shall blow on them
To stop them burning my lips.

Before I leave the counter
The woman shakes
Raindrops of vinegar on them
And salty snowflakes.

Outside the frosty pavements
Are slippery as a slide
But the chips and I
Are warm inside.

by Stanley Cook

Underline the right answers.

1 There were (sweets, flakes, chips) in the bag.

2 The weather was (hot, wet, frosty, snowy).

3 The chips were in (newspaper, a paper bag, a carton).

Answer these questions.

4 What did the woman put on the chips?

_____

5 Why did the person blow on the chips?

_____

6 How do we know there was ice on the pavements?

_____

7–9 Find three words in the poem that could also describe the weather.

_____ _____ _____

Add *gue* or *que* to finish each word correctly.

10 lea_____

11 anti_____

12 uni_____

13 ton_____

14 catalo_____

Fill in the gaps. Add a word that is opposite to the word in bold.

15 Mum says I must stay **in**. I want to go _____.

16 First I turned on the **hot** tap and then I turned on the _____ one.

17 Anne was **first**, but Sally was _____.

18 I found the question **hard** but Tom found it _____.

19 Goldilocks didn't sleep in the **big** bed, she slept in the _____ one.

Add the missing apostrophes (').

20 do not = d o n t **21** can not = c a n t

22 we have = w e v e **23** we are = w e r e

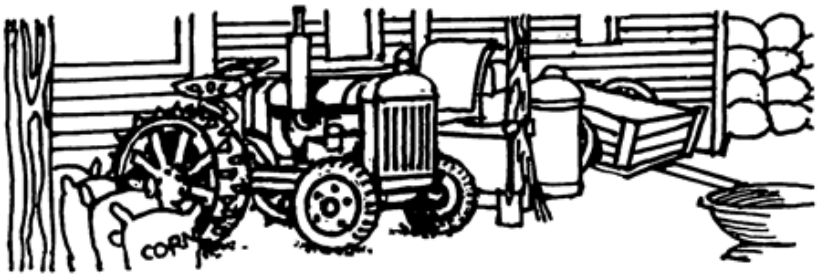
24 it is = i t s **25** did not = d i d n t

Sort these words into the table.

26-30 machine chemist ache parachute brochure
chalet chorus chute scheme character

ch as in echo	**ch** as in chef

Paper 10



There's an old green Fordson tractor in the back of Grandpa's barn, always covered in cornsacks. When I was little, I used to go in there, pull off the cornsacks, climb up and drive it all over the farm. I'd be gone all morning sometimes, but they always knew where to find me. I'd be ploughing or tilling or mowing, anything I wanted. It didn't matter to me that the engine didn't work, that one of the iron wheels was missing, that I couldn't even move the steering wheel.

Up there on my tractor, I was a farmer, like my Grandpa, and I could go all over the farm, wherever I wanted. When I'd finished, I always had to put the cornsacks back and cover it up. Grandpa said I had to, so that it didn't get dusty. That old tractor, he said, was very important, very special. I knew that already of course, but it wasn't until many years later that I discovered just how important, just how special it was.

I come from a family of farmers going back generations and generations, but I wouldn't have known much about it if Grandpa hadn't told me. My own mother and father never seemed that interested in family roots, or maybe they just preferred not to talk about them. My mother grew up on the farm. She was the youngest of four sisters, and none of them had stayed on the farm any longer than they'd had to. School took her to college. College took her off to London, to teaching first, then to meeting my father, a townie through and through, and one who made no secret of his dislike for the countryside and everything to do with it.

From *Farm Boy* by Michael Morpurgo

Underline the right answers.

1 Where was the tractor kept?
(outside, in the barn, in the garage)

2 Why did he have to cover the tractor with cornsacks?
(to stop it getting wet, to stop it getting dirty, to stop it getting dusty)

3 Why did the boy's mother first leave the farm?
(to work, to get married, to go to college)

Answer these questions.

4–6 What three things might the boy do while sitting on the tractor?

_____

7 Say what 'a townie through and through' means, in your own words.

_____

8 Why do you think the boy's father was not interested in farming?

_____

Write the **collective noun** to match each picture.

herd flock bunch choir

9  _____

10  _____

11  _____

12  _____

Write the expressions in the table.

Hello. How are you?
Watch out! Good to see you.
Mind your head! Take care!

13–18

Expression of greeting	Expression of warning

Change each of these **verbs** into **nouns** by adding *ation*. Remember, some letters may need changing before adding *ation*.

19 sense _____

20 adore _____

21 prepare _____

22 admire _____

23 inform _____

24 imagine _____

Add a **prefix** from the box to each word.

anti	im	sub	auto	il	re

25 _____possible **26** _____heading **27** _____turn

28 _____legal **29** _____freeze **30** _____mobile

English – Grammar

Prefixes

Prefixes are groups of letters placed at the beginning of a word, which change its meaning.

pre means **'before'**	**pre**pay – to pay beforehand
re means **'again'**	**re**write – to write something again

1. Choose the correct prefix to complete these words.

a _____cycle	**b** _____place	**c** _____visit	**d** _____diction
e _____fix	**f** _____fill	**g** _____bound	**h** _____build
i _____dict	**j** _____call	**k** _____mature	**l** _____caution

2. Choose a prefix to complete these sentences.

a Pascale saw the sun's rays _____flecting off the sea.

b Oscar watched the roundabout slowly _____volve.

c John will start to _____pare for his exams tomorrow.

d Before reading the first chapter, I read the _____face.

QUICK TIP!
Use a dictionary to help you complete the words.

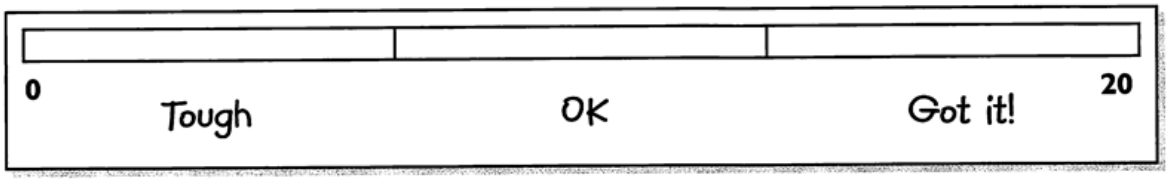
3. What do you think these words mean?

a remix _____

b preheat _____

c replay _____

d preview _____



Total
/20

Adding the prefixes **un**, **de** or **dis** changes the meaning of a word into its opposite. Words with opposite meanings are called **antonyms**.

un means **'not'**	**un**able – not able
de means **'making the opposite of'**	**de**mist – to remove mist
dis means **'not' or 'the opposite of'**	**dis**honest – not honest

1. Choose the correct prefix to complete these antonyms.

a _____likely	**b** _____organised	**c** _____kind	**d** _____duct
e _____trust	**f** _____part	**g** _____fit	**h** _____appear
i _____fuse	**j** _____load	**k** _____seen	**l** _____approve

2. Complete these sentences using the antonym of the word in bold.

a George said the referee's decision was **fair** but Jo said it was _____.

b Teresa tried to _____ the **code** that Sally had written.

c Raj tried to **connect** to the Internet but had to _____ the cable first.

d Mary had an _____ room but Gita's was **tidy**.

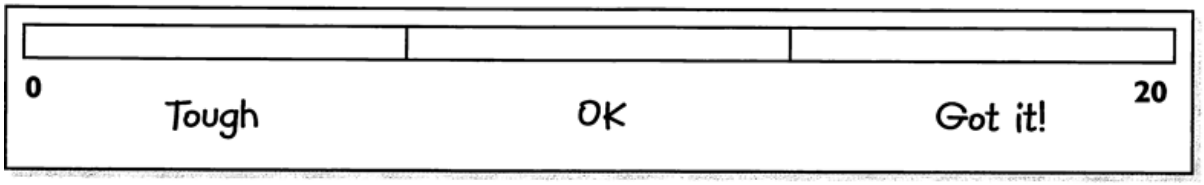
3. Complete the sentences by making antonyms for the words in brackets.

a It was _____ for David's Mum to collect him after school. (usual)

b "I _____ of your choice in music," remarked Charlie. (approve)

c The spy's mission was to _____ the computer network. (bug)

d "I'd be _____ if I didn't support my team," said Alfie. (loyal)



Total ___/20

Suffixes

Introduction to suffixes : -ly, -ful

Add suffixes to these root words. The first one has been done for you

The suffix -ly

1. **quick** → quick + ly
   quickly
2. **cheap** → cheap + ly
3. **slow** → slow + ly
4. **gentle** → gentle + ly
   gently
5. **terrible** → terrible + ly
6. **probable** → probable + ly
7. **happy** → happy + ily
   happily
8. **lucky** → lucky + ily
9. **easy** → easy + ily

The suffix -ful

1. **care** → care + ful
   careful
2. **power** → power + ful
3. **pain** → pain + ful
4. **mercy** → mercy + iful
   merciful
5. **pity** → pity + iful
6. **bounty** → bounty + iful

Introduction to suffixes: -ness, -less, -ment

The suffix -ness

1. **swift** → swift + ness

   swiftness

2. **thick** → thick + ness

3. **still** → still + ness

The suffix -less

1. **use** → use + less

   useless

2. **spot** → spot + less

3. **cord** → cord + less

The suffix –ment

1. **pay** → pay + ment

   payment

2. **assess** → assess + ment

3. **adjust** → adjust + ment

Suffix Rules: -ful, -ly

Add suffixes to these root words.

The suffix -ly

Add -ly

quick → _____

cheap → _____

slow → _____

2. Remove the -le, add -ly

gentle → _____

terrible → _____

probable → _____

3. Change the -y to an -i, add -ly.

speedy → _____

happy → _____

lucky → _____

easy → _____

The suffix -ful

Add -ful

care → _____

power → _____

thought → _____

pain → _____

stress → _____

master → _____

fright → _____

2. Change the -y to an -i, add -ful

mercy → _____

pity → _____

bounty → _____

plenty → _____

The suffix -ness

Add -ness

swift → _____

thick → _____

still → _____

bashful → _____

hopeful → _____

well → _____

ill → _____

The suffix -less

Add -less

use → _____

spot → _____

fear → _____

flaw → _____

pain → _____

ruth → _____

cord → _____

The suffix -ment

Add -ment

manage → _____

govern → _____

pay → _____

assess → _____

adjust → _____

attach → _____

excite → _____

Homework

Choose one word above and find out its meaning.

Root word and suffix:

_____

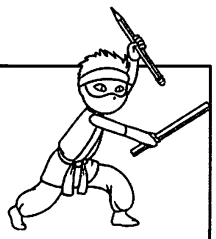
Meaning:

_____

_____

_____

Add the correct suffix to these root words.
Choose from -ly,-ful, -ness, -ment and -less.
(Some words may have more than one answer.)



slow → _____ ruth → _____ ill → _____

care → _____ swift → _____ manage → _____

govern → _____ flaw → _____ cheap → _____

pain → _____ thick → _____ pay → _____

cord → _____ fear → _____ assess → _____

stress → _____ selfish → _____ adjust → _____

master → _____ thought → _____ well → _____

use → _____ attach → _____

spot → _____ excite → _____

power → _____ still → _____

Change the end of these words before adding the correct suffix.
Choose from -ly, -less, -ness or -ful.
(Some words may have more than one answer.)

speedy → _____ plenty → _____

happy → _____ probable → _____

lucky → _____ terrible → _____

easy → _____ gentle → _____

mercy → _____ bounty → _____

pity → _____

Homework

Choose one word above and find out its meaning.

Root word and suffix:

_____

Word Class: noun/ adjective/adverb

Meaning:

_____

_____

_____

_____

_____

English – Writing Task

1) Can you identify and find 5 words from story 1 with prefixes and underline the **prefix** of each word?

i) …….. ii) …….. iii) …….. iv) …….. v) ……..

2) Can you pick 5 words from Story 2 and add a suffix on to the word and underline the suffix ?

i) …….. ii) …….. iii) …….. iv) …….. v) ……..

3) Do you think the narrator in story 1 likes chips ? What makes you think that?

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5) What do you think the writer means by *"none of them (the boy's mother and her sisters) stayed on the farm any longer than they'd had to"*

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5) How does the boy in story 2 feel about the tractor and why do you think he feels that way ?

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5) Write a description about why you think the tractor in story 2 is described as "special" ? (Could it be magical? Does it talk!?)

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Non-Verbal

Shading and line types

Look out for shapes with different shadings, as well as lines that are dotted or dashed.

Warm Up

1. How many **black shapes** are there in each figure?

a.  2

b.  ___

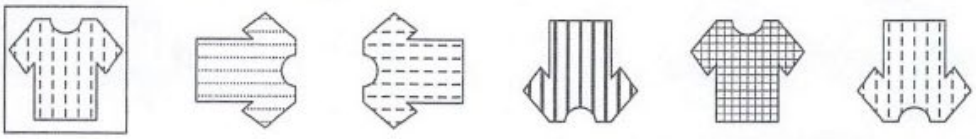
c.  ___

d.  ___

e.  ___

f.  ___

2. How many shirts have the **same kind** of **stripes** as the shirt inside the square?



Number of shirts with the **same kind** of **stripes**: ___

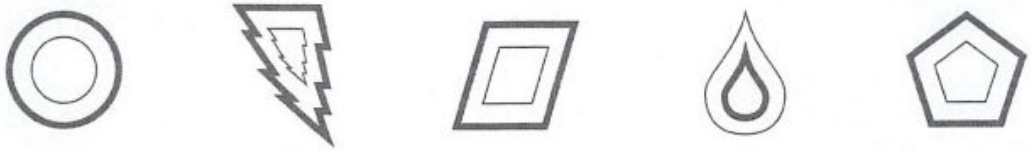
Odd One Out

Find the figure in each row that is most unlike the other figures.
Example:

a b c d e

In all other figures the small squares are black. (In B the small squares are grey.) (b)

3.



a b c d e

(___)

4.

a b c d e

(___)

5.

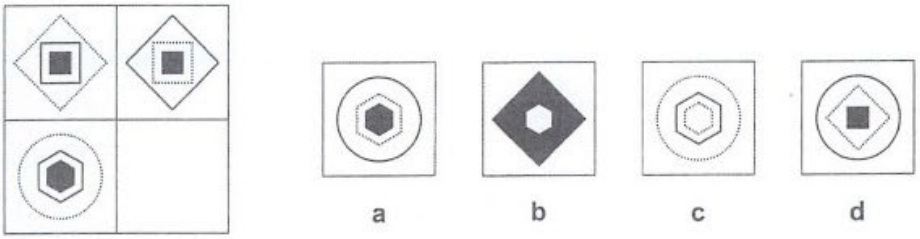
a b c d e

(____)

Complete the Grid

Work out which of the options best fits in place of the missing square in the grid.

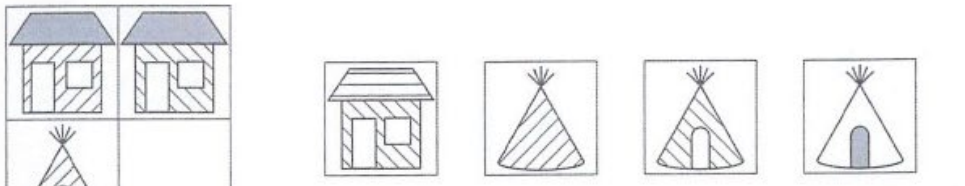
Example:



a b c d

Working from left to right, the dotted lines become solid and the solid lines become dotted. (a)

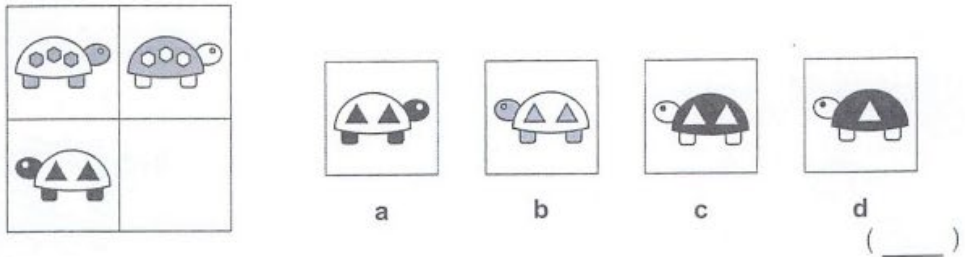
6.



a b c d

(____)

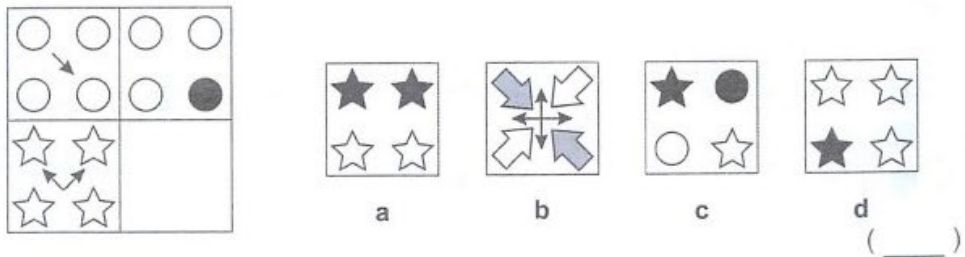
7.



a b c d

(____)

8.



a b c d

(____)

Spelling	century	various	peculiar	business	grammar
Copy x 1					
Copy x 2					
Cover and write					
Cover and write					
Cover and write					
Cover and write					

Definitions:

Century: A period of one hundred years

Various : Different from one another / of different kinds or sorts

Peculiar: something that is strange, odd or unusual.

Copy the definition x 3:

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Copy the definition from memory x 3:

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Copy the definition x 3:

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Copy the definition from memory x 3:

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Copy the definition x 3:

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Copy the definition from memory x 3:

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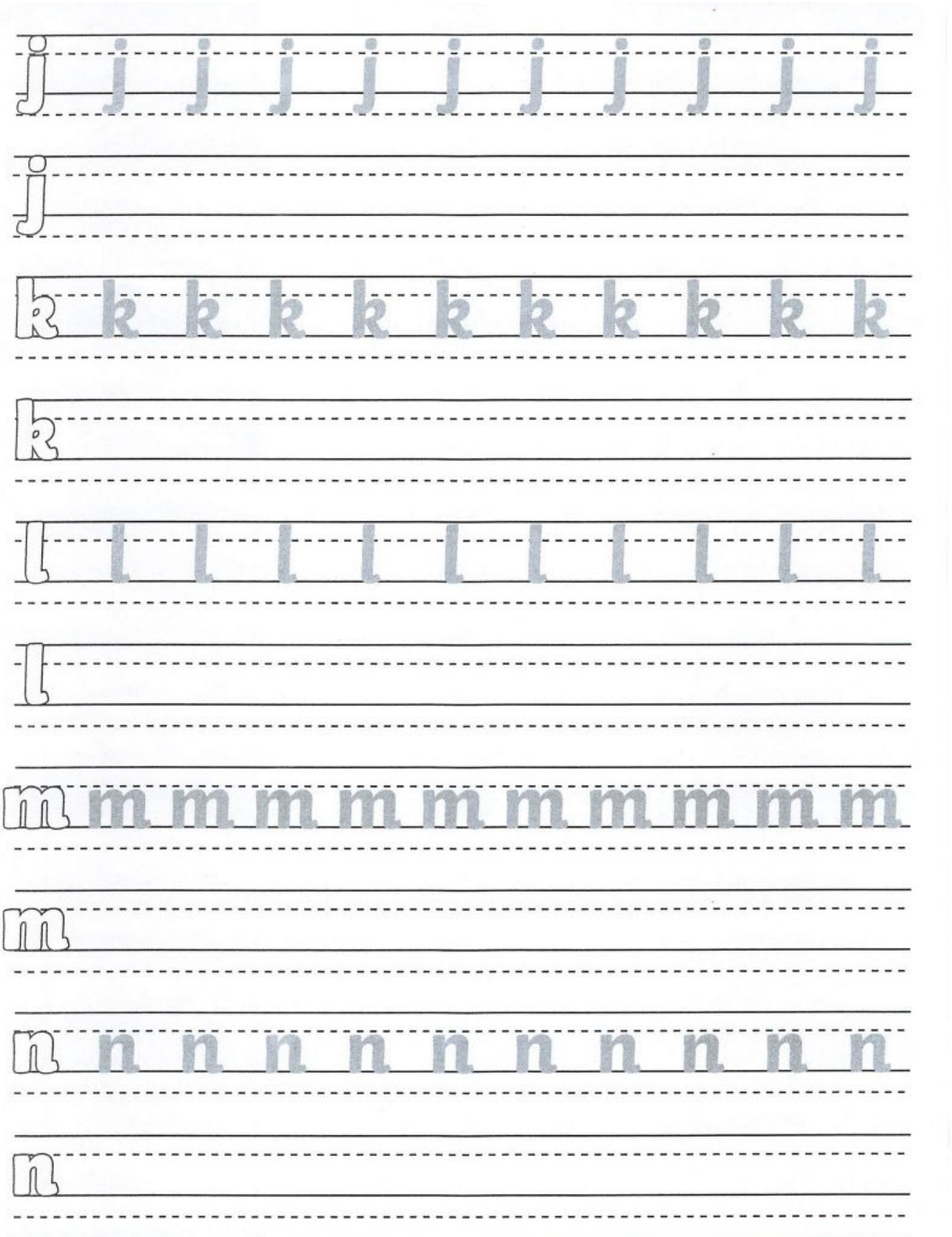
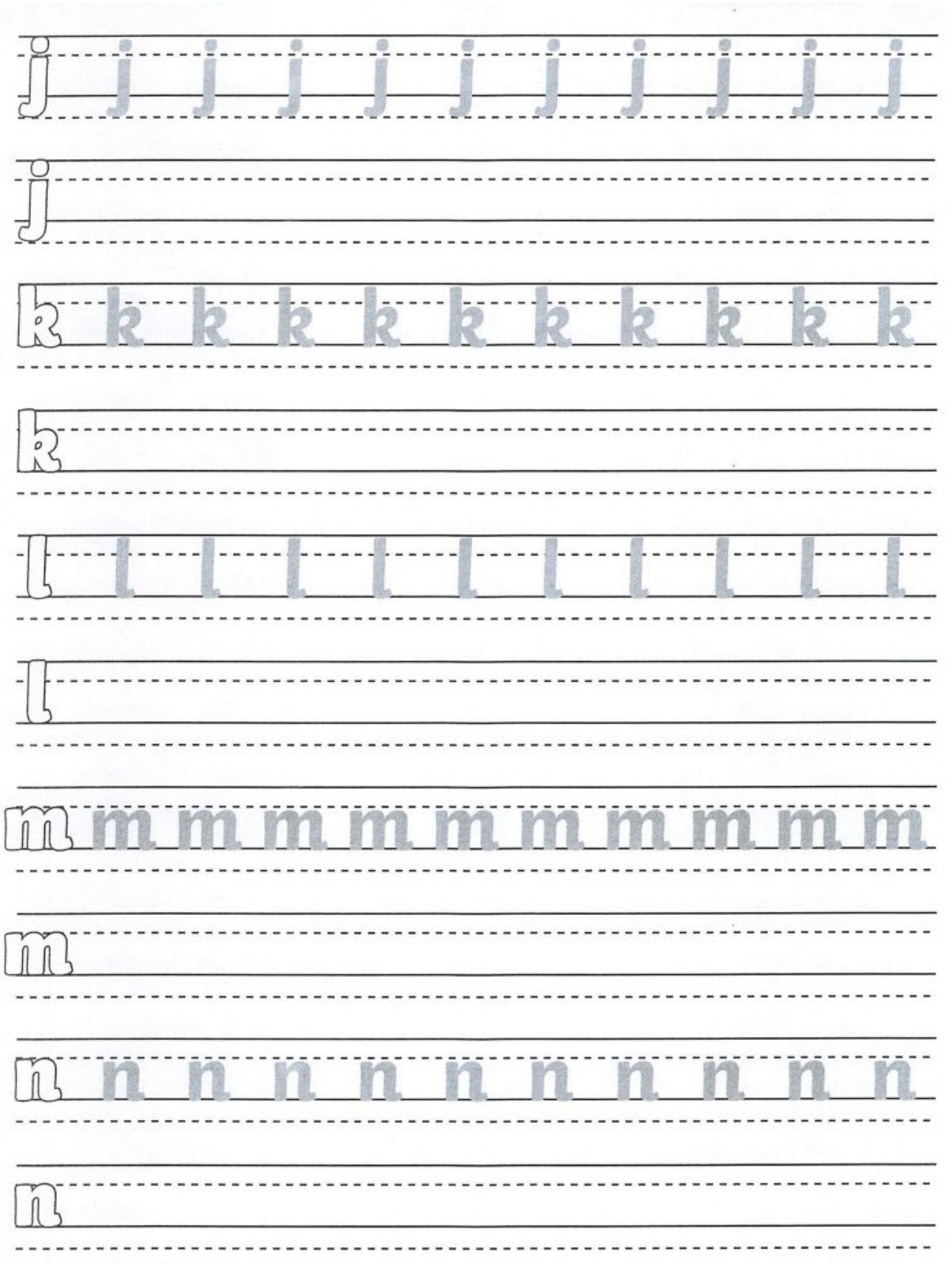
Handwriting Practice




j j j j j j j j j j
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n

o o o o o o o o o o o

o

p p p p p p p p p p p

p

q q q q q q q q q q q

q

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o

p p p p p p p p p p p

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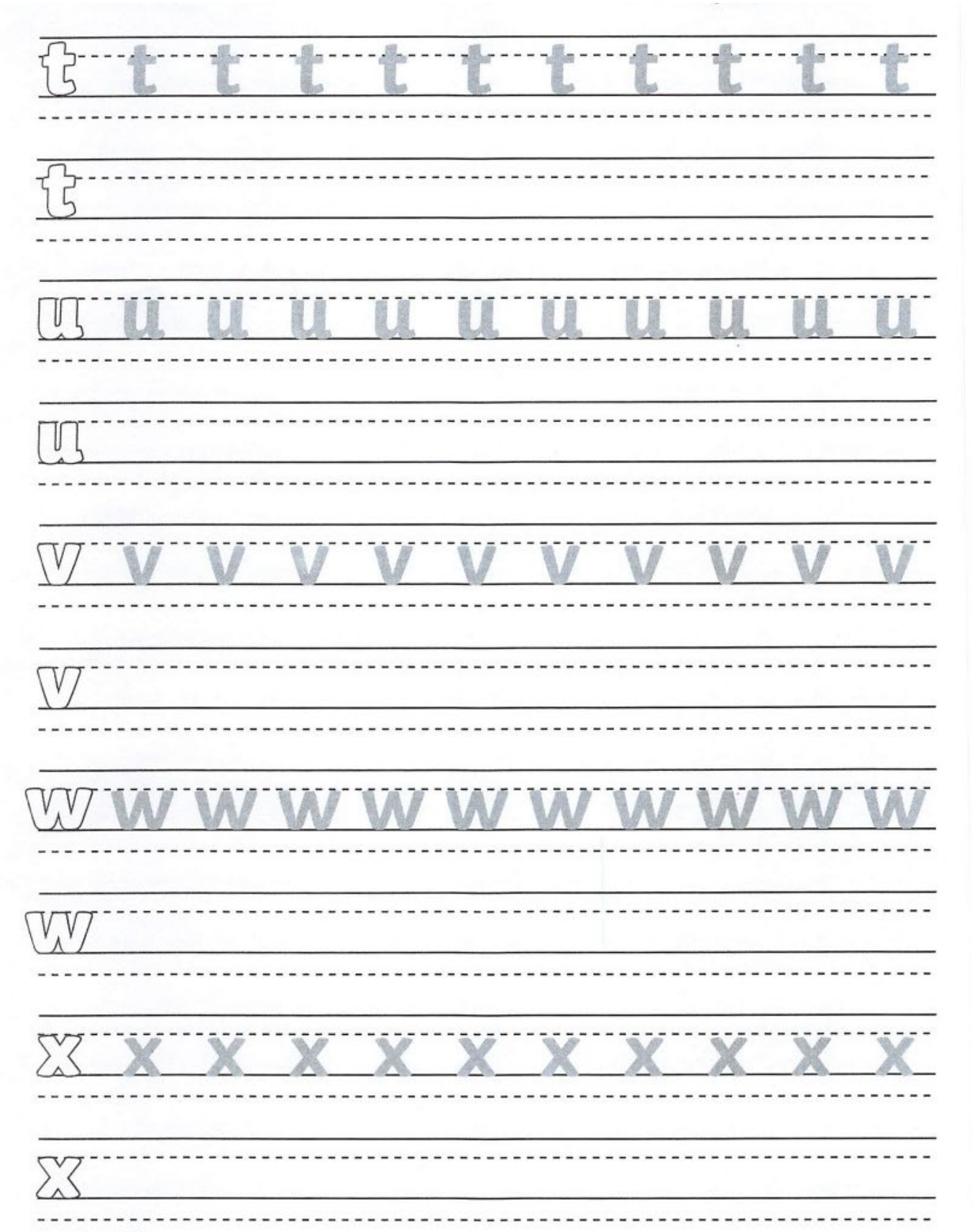
r

s s s s s s s s s s s

s


t t t t t t t t t t t
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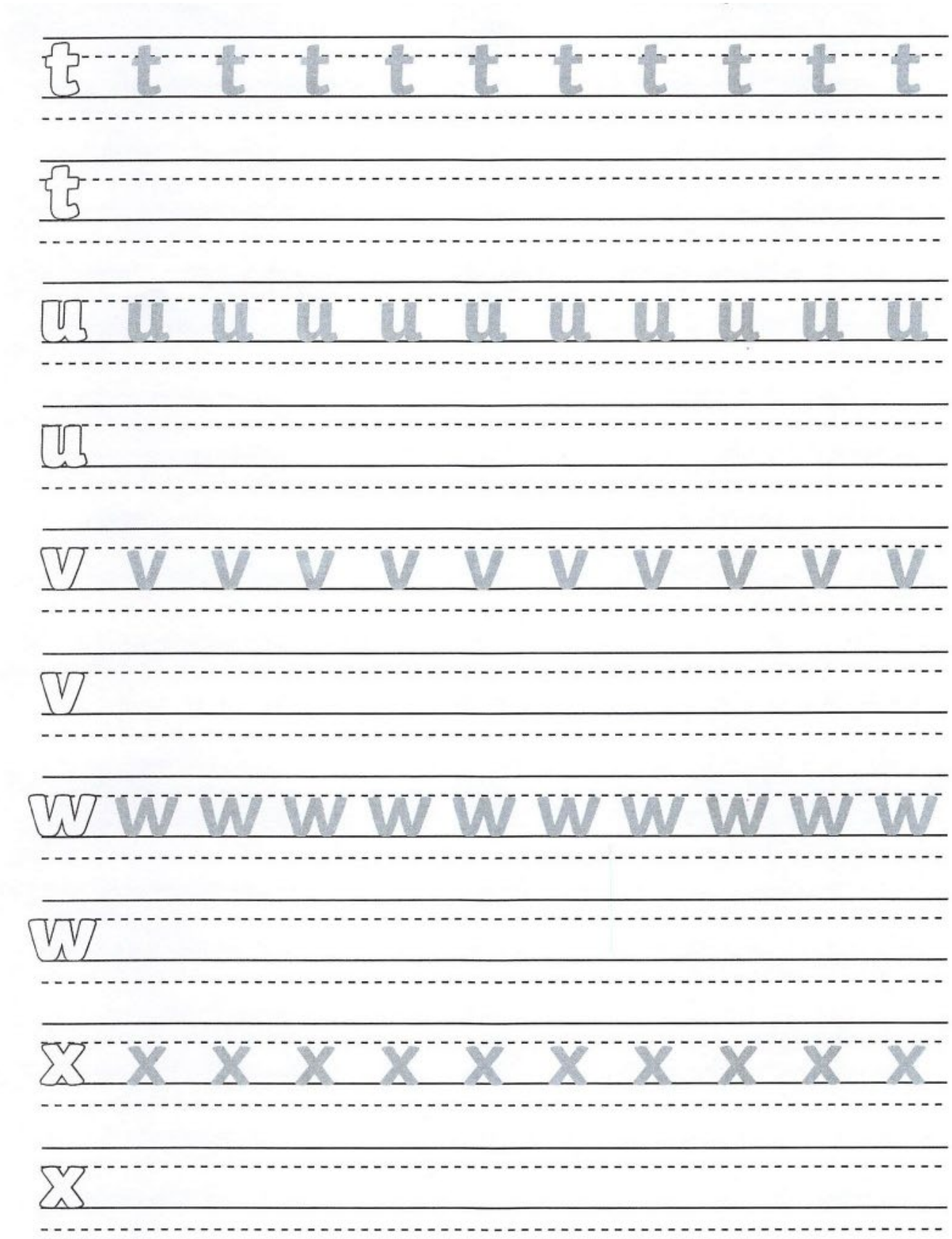
x


t t t t t t t t t t t
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y

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z

y y y y y y y y y y y

y

z z z z z z z z z z z

z

END OF LESSON

Conversion Rates

Time

1 Minute = 60 seconds

1 Hour = 60 Minutes

1 Day = 24 Hours

1 Week = 7 Days

1 Fortnight = 2 Weeks

1 Year = 52 Weeks

1 Year = 12 months

1 Year = 365 Days

1 Decade = 10 Years

1 Century = 100 Years

1 Millennium = 1000 Years

Length

1 Centimeter = 10 Millimetres

1 Meter = 100 Centimetres

1 Kilometer = 1000 Matres

5 Miles ≈ (approximately equal to) 8 Kilometers

1 Foot = 12 Inches

1 Yard = 3 Feet

Capacity

1 Kilolitre = 1000 Litre

1 Litre = 1000 millilitres

1 Litre = 100 centilitres

1 Centilitre = 10 millilitres

Weight

1 Tonne = 1000 Kilograms

1 Kilogram = 1000 Grams

1 Gram = 100 Centigrams

1 Gram = 1000 Milligrams

1 Stone = 14 Pounds

1 Pound = 16 Ounces

Learn a few of these each day!

Perhaps you could tick them off as you learn them?

Fraction	Decimal	Percentage
1	1	100%
$\frac{1}{2}$	0.5	50%
$\frac{1}{3}$	0.333	33%
$\frac{1}{4}$	0.25	25%
$\frac{1}{5}$	0.2	20%
$\frac{1}{6}$	0.166	16.6%
$\frac{1}{7}$	0.142	14.2%
$\frac{1}{8}$	0.125	12.5%
$\frac{1}{9}$	0.111	11.1%
$\frac{1}{10}$	0.1	10%
$\frac{1}{20}$	0.05	5%

Square Numbers

A square number is the product of a number multiplied by itself.

For example $1^2 = 1 \times 1 = 1$, so 1 is the first square number and $2^2 = 2 \times 2 = 4$, so 4 is the next square number. You should memorise the first **15** square numbers:

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196 and 225

Cube Numbers

A Cube number is the product of a number multiplied by itself 3 times.

For example $1^3 = 1 \times 1 \times 1 = 1$, so 1 is the first cube number and $2^3 = 2 \times 2 \times 2 = 8$, so 8 is the next cube number. You should memorise the first **10** cube numbers:

1, 8, 27, 64, 125, 216, 343, 512, 729 and 1000

Prime Numbers

A prime number is a number with 2 factors, 1 and itself, so the first prime number is 2 as its factors is 1. You should learn to recognize the prime numbers up to 100:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89 and 97

1 x	2 x	3 x	4 x	5 x	6 x
1 x 1 = 1	2 x 1 = 2	3 x 1 = 3	4 x 1 = 4	5 x 1 = 5	6 x 1 = 6
1 x 2 = 2	2 x 2 = 4	3 x 2 = 6	4 x 2 = 8	5 x 2 = 10	6 x 2 = 12
1 x 3 = 3	2 x 3 = 6	3 x 3 = 9	4 x 3 = 12	5 x 3 = 15	6 x 3 = 18
1 x 4 = 4	2 x 4 = 8	3 x 4 = 12	4 x 4 = 16	5 x 4 = 20	6 x 4 = 24
1 x 5 = 5	2 x 5 = 10	3 x 5 = 15	4 x 5 = 20	5 x 5 = 25	6 x 5 = 30
1 x 6 = 6	2 x 6 = 12	3 x 6 = 18	4 x 6 = 24	5 x 6 = 30	6 x 6 = 36
1 x 7 = 7	2 x 7 = 14	3 x 7 = 21	4 x 7 = 28	5 x 7 = 35	6 x 7 = 42
1 x 8 = 8	2 x 8 = 16	3 x 8 = 24	4 x 8 = 32	5 x 8 = 40	6 x 8 = 48
1 x 9 = 9	2 x 9 = 18	3 x 9 = 27	4 x 9 = 36	5 x 9 = 45	6 x 9 = 54
1 x 10 = 10	2 x 10 = 20	3 x 10 = 30	4 x 10 = 40	5 x 10 = 50	6 x 10 = 60
1 x 11 = 11	2 x 11 = 22	3 x 11 = 33	4 x 11 = 44	5 x 11 = 55	6 x 11 = 66
1 x 12 = 12	2 x 12 = 24	3 x 12 = 36	4 x 12 = 48	5 x 12 = 60	6 x 12 = 72

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

Homework Diary:

Extra notes:

END OF LESSON