

NAME: _____

GRADE: _____

MATHS WORKSHEETS

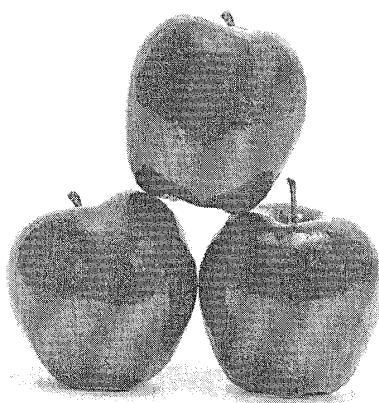
SECOND TERM

GRADE 4

SYLLABUS	INSTAMATHS	WKSHEET
Tables (multiplying)	18; 20; 23; 25;	
Tables (patterning)	30	
Tables (dividing)	19; 21; 24;	
Long multiplication by 1 digit	31; 32;	
Long multiplication by 2 digits	33	
Tables (multiply and divide)	22;	
Multiplication by 10, 100, 1000	26; 27;	4, 5
Zeros in multiplication	28	
Traditional multiplication		6, 7
Dividing by 10 and 100	29;	8
Short Division	35; 36	9, 10
The 4 operations	37	
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MEASUREMENT (Time)		
Measuring Time		11
24 hr clock showing am and pm	83; 85; 86	12
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GRAPHS: see Graph worksheet		

ADDITION AND SUBTRACTION REVISION

KEY WORDS FOR ADDITION		KEY WORDS FOR SUBTRACTION	
add	Add 3 to 4 and you get 7	decrease	If you decrease 8 by 5 you get 3
altogether	3 and 4 make 7 altogether	difference	The difference between 8 and 5 is 3
increase	If you increase 3 by 4 you get 7	fewer than	3 is 5 fewer than 8
more	7 is 3 more than 4	Less than	3 is 5 less than 8
plus	3 plus 4 is 7	minus	8 minus 5 is 3
sum	The sum of 3 and 4 is 7		
total	The total of 3 and 4 is 7		



KEY WORDS FOR MULTIPLICATION		KEY WORDS FOR DIVISION	
factors	3 and 4 are factors of 6. One number is a factor if it divides or goes into another number exactly.		
divisible	6 is divisible by 3. 7 is not exactly divisible by 3.	divisible	6 is divisible by 3. 7 is not exactly divisible by 3.
Groups of	2 groups of 2 make 4	Groups of	There are 3 groups of 2 in 6
Lots of	2 groups of 2 make 4	divide	If you divide 6 by 3 you get 2.
Multiple	4 is a multiple of 2	Left over/ remainder	If you divide 7 by 3 the answer is 2 with 1 left over.
Multiply	Multiply 2 by 2 and you get 4	Share	If you share 6 toffees between 3 people, each person gets 2.
Product	The product of 2 and 2 is 4		
Sets of	2 sets of 2 make 4		
Times	2 times 2 is 4		

MULTIPLYING BY 10, 100 AND 1000

Multiplying by 10

When you multiply by 10 you **move all the digits one place to the left** and then numbers become 10 times bigger. Remember to **add a zero** in the empty place.

For example: $25 \times 10 = 250$

Remember: If you multiply a number by 10 the answer is the same number with **one zero** at the end.

Multiplying by 100

When you multiply by 100 you **move all the digits two places to the left** and then numbers become 100 times bigger. Remember to **add two zeros** in the empty places.

For example: $25 \times 100 = 2500$

Remember: If you multiply a number by 100, the answer is the same number with **two zeros** at the end.

Multiplying by 1000

When you multiply by 1 000 you **move all the digits three places to the left** and then numbers become 1 000 times bigger. Remember to add **three zeros** in the empty places.

For example: $25 \times 1\,000 = 25\,000$

Remember: If you multiply a number by 100, the answer is the same number with **three zeros** at the end.

FACTS ABOUT MULTIPLICATION

MULTIPLICATION IS REPEATED ADDITION. IT IS A FAST WAY OF ADDING A SERIES OF NUMBERS TOGETHER.

3×5 means to add 3 together 5 times eg $3 + 3 + 3 + 3 + 3$

WHEN YOU MULTIPLY IT DOES NOT MATTER WHICH NUMBER IS FIRST WHEN YOU WRITE THE PROBLEM. THE ANSWER IS ALWAYS THE SAME.

$$3 \times 5 = 5 \times 3$$

ANY NUMBER MULTIPLIED BY 0 IS ALWAYS 0.

$$0 \times 3 = 0 \quad 7 \times 0 = 0$$

EXERCISES IN MULTIPLYING BY 10, 100 AND 1000

Worked example:

761 people attend a concert. They each pay R10 for a ticket. What is the total amount in ticket sales?

Solution:

761 people each pay R10, so we multiply 761 by 10. The answer is R 7 610

Exercise 1

- | | |
|---|---|
| <p>(a) 3×10 _____</p> <p>(c) 2347×10 _____</p> <p>(e) 234×100 _____</p> <p>(g) 3×1000 _____</p> <p>(i) 877×1000 _____</p> | <p>(b) 123×10 _____</p> <p>(d) 34×100 _____</p> <p>(f) 5632×100 _____</p> <p>(h) 65×1000 _____</p> <p>(j) 4568×1000 _____</p> |
|---|---|

INSTAMATHS EXERCISES

Tables - 2 3 4	Instamaths 18	Total 10	Your mark:
Tables – 5 6 7	Instamaths 20	Total 10	Your mark:
Tables - 8 9	Instamaths 23	Total 10	Your mark:
Mixed Tables	Instamaths 25	Total 10	Your mark:
Patterning 9 and 11	Instamaths 30	Total 10	Your mark:
Long multiplication 1 digit	Instamaths 31	Total 10	Your mark:
Long multiplication 1 digit	Instamaths 32	Total 10	Your mark:
Long multiplication 2 digits	Instamaths 33	Total 10	Your mark:
Multiplication 10,100, 1000	Instamaths 26	Total 10	Your mark:
Multiplication 10,100, 1000	Instamaths 27	Total 10	Your mark:
Zeros in multiplication	Instamaths 28	Total 10	Your mark:

LONG MULTIPLICATION

EXERCISE 1

1. 45×5	3. 345×2
2. 64×4	4. 273×8

EXERCISE 2

1. 78×53	3. 54×37
2. 45×42	4. 67×28

EXERCISE 3

1. 341×56	3. 536×66
2. 523×34	4. 642×32

EXERCISE 4

1. $2\,436 \times 23$	4. $6\,432 \times 31$	7. $3\,264 \times 12$
2. $1\,564 \times 14$	5. $4\,639 \times 27$	8. $4\,687 \times 11$
3. $3\,143 \times 35$	6. $1\,043 \times 29$	9. $6\,832 \times 77$

PROBLEM SOLVING

1. A hotel ordered 347 bags of potatoes. If there were 45 potatoes in each bag, how many potatoes were ordered?
2. A gardener planted 239 trays of pansies. Each tray had 23 pansies in them. How many pansies did he plant?
3. A banana tree had 534 bunches of bananas on them. How many bananas were there on the tree if there were 34 bananas in each bunch?
4. I ordered 142 pizzas and cut them into 14 pieces. How many pieces did I have altogether?

DIVIDING BY 10 and 100

Dividing by 10

When you divide by 10 you **move all the digits one place to the right** and then numbers become 10 times smaller. **If the number ends with a zero you can simply remove it.**

For example: $250 \div 10 = 25$



Dividing by 100

When you divide by 100 you **move all the digits two place to the right** and then numbers become 100 times smaller. **If the number ends with two zeros you simply remove them.**

For example: $2\ 500 \div 100 = 25$



EXERCISE 1

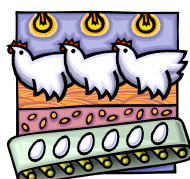
1. $5\ 100 \div 10 =$	2. $1\ 100 \div 10 =$	3. $1\ 630 \div 10 =$	4. $7\ 040 \div 10 =$
5. $1\ 900 \div 10 =$	6. $2\ 140 \div 10 =$	7. $8370 \div 10 =$	8. $1970 \div 10 =$

EXERCISE 2

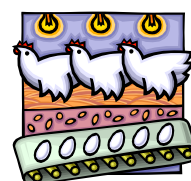
1. $5\ 100 \div 100 =$	2. $1\ 100 \div 100 =$	3. $17\ 300 \div 100 =$	4. $73\ 000 \div 100 =$
5. $16\ 800 \div 100 =$	6. $3\ 100 \div 100 =$	7. $81\ 200 \div 100 =$	8. $14\ 900 \div 100 =$

INSTAMATHS EXERCISES

Dividing by 10 and 100	Instamaths 29	Total 10	Your mark:
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$12 \div 2$	$14 \div 14$
$12 \div 1$	$14 \div 7$
$13 \div 13$	$14 \div 2$
$13 \div 1$	$14 \div 1$



SHORT DIVISION

EXERCISE 1

1. $429 \div 3$	2. $303 \div 3$	3. $180 \div 6$	4. $282 \div 2$
5. $100 \div 5$	6. $260 \div 4$	7. $141 \div 3$	8. $400 \div 5$

EXERCISE 2

1. $175 \div 7$	2. $440 \div 4$	3. $220 \div 10$	4. $410 \div 5$
5. $540 \div 6$	6. $148 \div 4$	7. $450 \div 9$	8. $200 \div 8$
9. $234 \div 9$	10. $459 \div 3$	11. $462 \div 6$	12. $188 \div 2$

EXERCISE 3 (WITH REMAINDERS)

1. $168 \div 7$	2. $430 \div 4$	3. $342 \div 10$	4. $217 \div 5$
5. $531 \div 6$	6. $151 \div 4$	7. $471 \div 9$	8. $214 \div 3$

INSTAMATHS EXERCISES

Dividing by 2 3 4	Instamaths 19	Total 10	Your mark:
Dividing by 5 6 7	Instamaths 21	Total 10	Your mark:
Dividing by 8 9	Instamaths 24	Total 10	Your mark:
Short Division	Instamaths 35	Total 20	Your mark:
“Long” Division	Instamaths 36	Total 10	Your mark:
The four operations	Instamaths 37	Total 10	Your mark:
Word Problems	Instamaths 38	Total 10	Your mark:

PROBLEM SOLVING

1. I have 480 cm of ribbon. How many 6 cm lengths can I get from it?
2. I have 528 eggs. If I put 6 eggs into a box, how many egg boxes would I use?
3. I have R320 and tickets for a show cost R8 each? How many tickets can I buy?
4. There are 148 children in grade 4. How many teams of 5 can they make?



MEASURING TIME

We can measure time in seconds, minutes, hours, days, weeks, fortnights, months, seasons, years, decades, centuries and millennia. You need to understand these units of measurement and know when to use each one.

Seconds - used for measuring a short length of time such as a quick sprint.

Minutes - used for measuring time that is quite short, but likely to be longer than 60 seconds such as a bus journey to school.

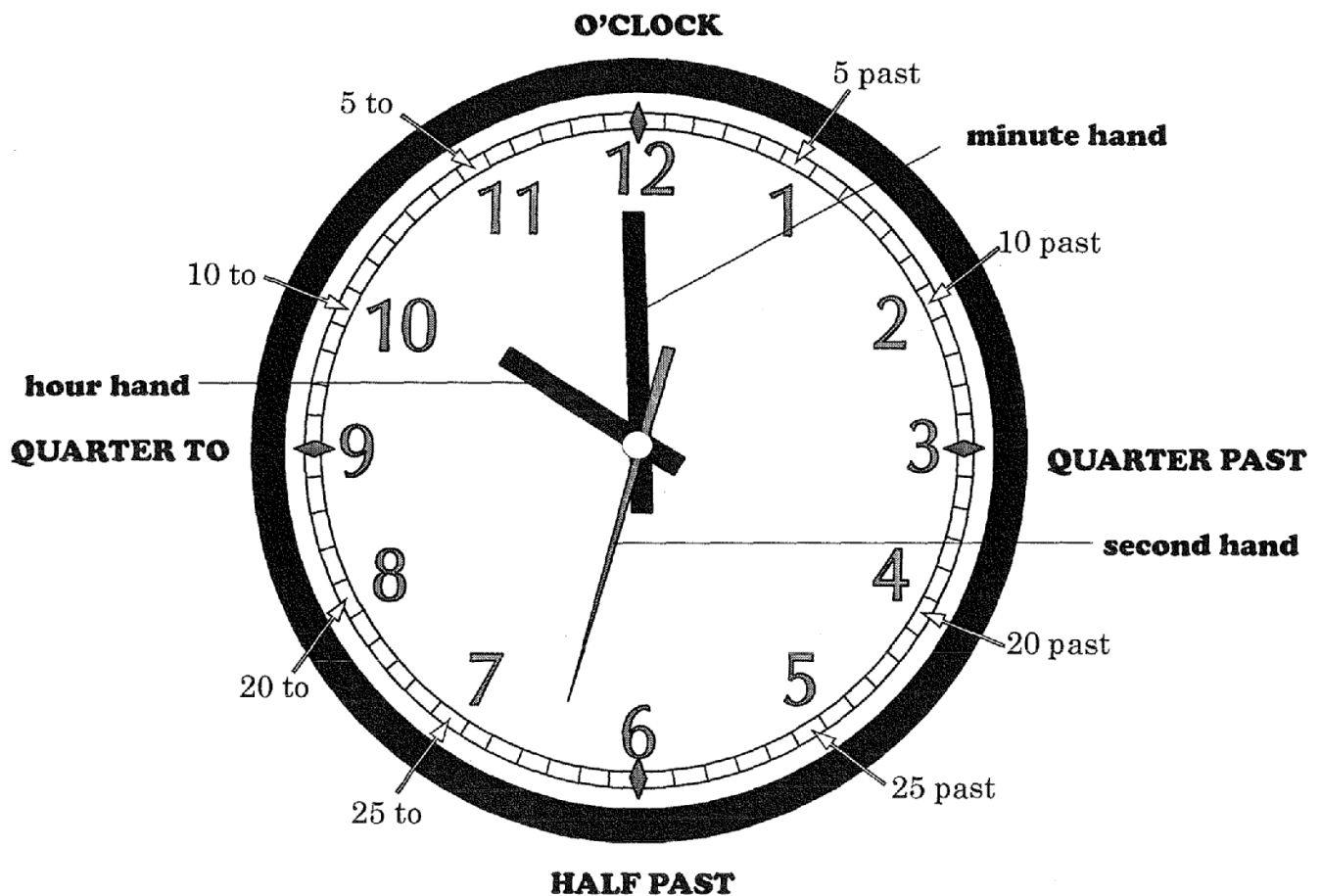
Hours - used for measuring longer periods of time, such as how many hours you have to work in a day or a week.

TYPES OF CLOCKS

A DIGITAL CLOCK

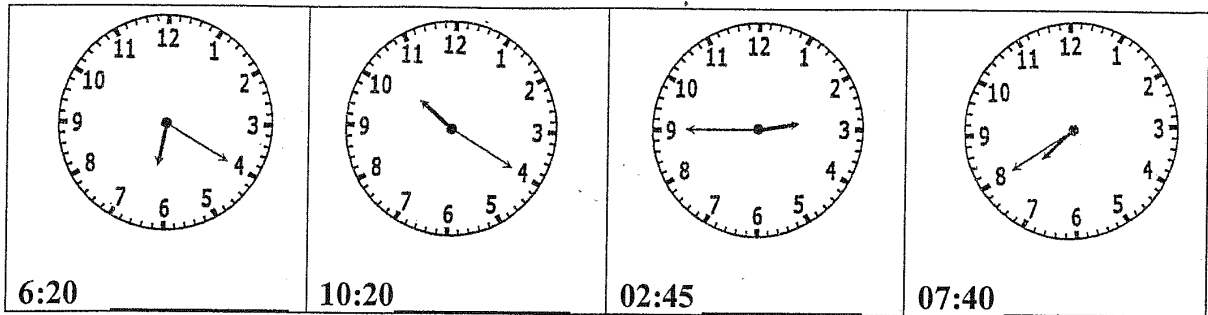


AN ANALOGUE CLOCK

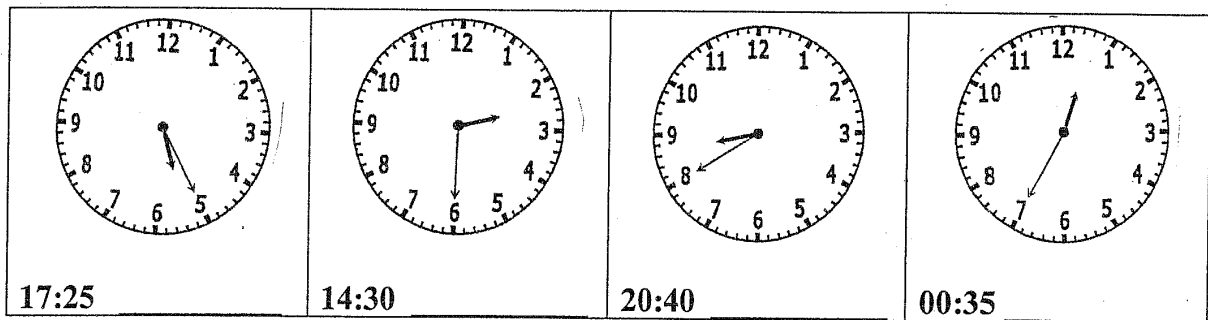


TIME: 24 HOUR CLOCK SHOWING AM AND PM

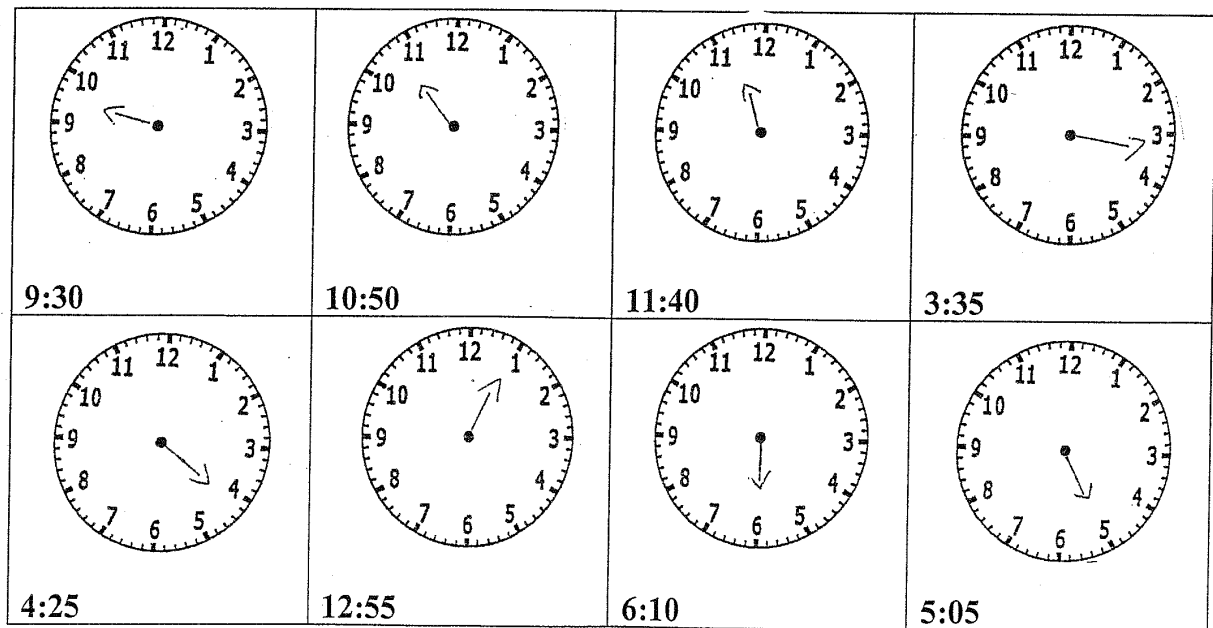
Fill in the evening time on this 24 hour clock. I have given you the morning time.



Fill in the morning time on this 24 hour clock. I have given you the evening time.



DRAW THE MINUTE HAND TO SHOW THE CORRECT TIME



CONVERTING TIME

There are two major ways to show the time: "AM/PM" or "24 Hour Clock".

With the 24 hour (digital) clock the time is shown in hours and minutes from midnight.

With am/pm or 12 hour (analogue) clock the day is split into the 12 hours running from midnight to noon (the am hours) and the other 12 hours running from noon to midnight (the pm hours).



Time in words	24 hour clock (digital clock)	12 hour clock (analogue clock)
1. seven o'clock in the evening	19:00	07:00 pm
2. quarter to ten in the morning		09:45 am
3. twenty past two in the afternoon	14:20	
4. quarter past ten in the evening	22:15	
5. midnight		00:00 am
6. midday	12:00	
7. quarter past two in the morning		02:15 am
8. half past eleven in the evening	23:30	
9. quarter past eight I the morning	08:15	
10. quarter to 7 in the morning		06:45 am
11. twenty past seven in the morning	07:20	
12. quarter past nine in the evening		09:15 pm

INSTAMATHS EXERCISES

24 hr clock	Instamaths 83	Total 10	Your mark:
24 hr clock	Instamaths 85	Total 10	Your mark:
24 hr clock	Instamaths 86	Total 10	Your mark:

HOURS AND MINUTES/BUS TIME TABLE

1 hr = 60 mins; $\frac{3}{4}$ hr = 45 mins; $\frac{1}{2}$ hr = 30 mins; $\frac{1}{4}$ hr = 15 mins;

1 min = 60 secs

Complete the following...

1 hour = 60 mins
2 $\frac{1}{2}$ hours = mins
3 hours and 57 mins = mins
4 $\frac{3}{4}$ hours = mins
5 hours and 33 mins = mins
6 $\frac{1}{4}$ hours = mins

Write the following as hours and minutes.

330 mins = hours minutes

260 mins = hours minutes

470 mins = hours minutes

205 mins = hours minutes



BUS TIMETABLE

DESTINATION	BUS
Cape Town	9:00am
Somerset West	10:15am
Worcester	11:00am
Caledon	1:45pm
Mossel Bay	2:10pm

1. How long does it take to get from Cape Town to Somerset West?	
2. How long does it take to go from Caledon to Mossel Bay?	
3. How long does it take to get from Somerset West to Worcester?	
4. How long does it take to get from Cape Town to Worcester?	
5. How long does it take to get from Worcester to Mossel Bay?	

USING A CALENDER



1. What date is your birthday?	
2. What day is your birthday on this year?	
3. How many Sundays are there in August?	
4. How many Fridays are there in January?	
6. How many days are there in April?	
7. Which is the shortest month?	
8. Besides January, March, May, August, October and December which month has 31 days?	
9. How many full weeks are there in each month?	
10. How many months is it from 1 st April to 1 st December?	
11. What will the date be 2 weeks from today?	
12. What day is Christmas Day on this year?	

ROMAN NUMERALS (to be learned)

1 = I	2 = II	3 = III	4 = IV	5 = V	6 = VI
7 = VII	8 = VIII	9 = IX	10 = X	11 = XI	12 = XII

INSTAMATHS EXERCISES

Using a calender	Instamaths 87	Total 10	Your mark:
Using a calender	Instamaths 88	Total 10	Your mark:

TIME QUIZ

1	How many seconds are there in a minute?	
2	How many hours are there in a day?	
3	How many days are there in a week?	
4	How many days are there in a year?	
5	How many weeks are there in a year?	
6	How many months are there in a year?	
7	Which month comes after March?	
8	Which is the 8 th month of the year?	
9	Which month comes before November?	
10	Which month changes the number of days it has in it if it is a leap year?	
11	Which is the 6 th month of the year?	
12	How many minutes have passed in a quarter past the hour?	
13	How many minutes have passed if it is half past the hour?	
14	How many minutes have passed if it is quarter to the hour?	

PROBLEMS



1	Sue got on the bus at 9 o' clock. The journey took half an hour. What time did she get off the bus?	
2	Playtime started at quarter past ten. It finished at quarter to eleven. How long was playtime?	
3	Grade 4 got on the school bus at five to 11. They arrived at the centre at half past twelve. How long was the bus journey?	
4	The children sat down to watch a film at quarter to five. It lasted an hour and a half. What time did the film end?	
5	Mary went into a shop at 10:30. She came out t 10:45. How long was she in the shop?	

INSTAMATHS EXERCISES

Time Quiz	Instamaths 84	Total 10	Your mark:
Speed, Distance, Time	Instamaths 89	Total 20	Your mark: