

Outcomes of chapter six:

At the end of chapter six, your child will be able to:

▶ Lessons 1 & 2 :

- Participate in calendar math activities.
- Select appropriate units to measure the mass of objects.
- Match items to mass in grams or kilograms.
- Compare grams and kilograms.
- Investigate the mass of various items.

▶ Lessons 3 & 4:

- Participate in calendar math activities.
- Solve story problems involving mass.
- Create one-step story problems involving adding or subtracting units of mass.
- Solve addition and subtraction story problems.

▶ Lessons 5 & 6 :

- Participate in calendar math activities.
- Distinguish between A.M. and P.M.
- Tell time to the hour.
- Explain that a day equals 24 hours.
- · Create an analog clock.

▶ Lessons 7 & 8 :

- Participate in calendar math activities.
- Show time to the half hour on an analog
- Write time to the hour and half hour.
- Tell time to the half hour.
- Read time to the hour and half hour.
- Match digital times to analog times.

▶ Lessons 9 & 10 :

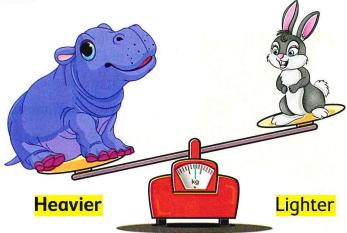
- Participate in calendar math activities.
- Write time to the quarter hour.
- Match analog times to the quarter hour to their digital and written forms.
- Read time to the quarter hour.

Lessons 2

- Measuring mass
- Units of measuring mass

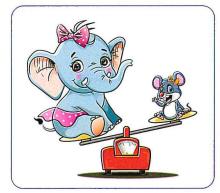


Pre-study Heavier and lighter



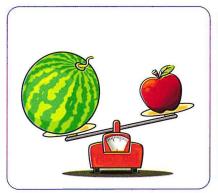


Circle the lighter object.

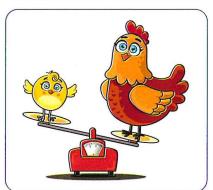












Notes for parents

- Give your child two objects of clearly different weights, ask him/her to hold one object in each hand and tell you which is heavier.
- Ask your child to show you something that is heavier than a spoon and another something that is lighter than the spoon.





Learn 1 Measuring mass and its units

Grams (gm) and Kilograms (kg) are measuring units of mass.

Note:

Mass and weight are different.

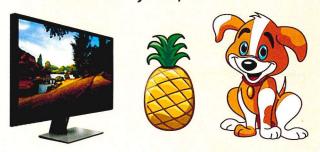
- Mass stays the same no matter where you are.
- Weight changes from a place to another, for example the weight of any object on the Earth is different from its weight on the moon.



Gram is used to measure objects with less mass, which are lighter objects, such as:

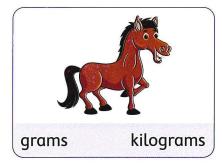


Kilogram is used to measure objects with more mass, which are heavier objects, such as:



Check (

Circle the better unit you would use to measure the real object.







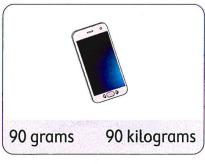
- · Ask your child to find something in your home its mass is about 1 gram and another something its mass is about 1 kilogram, then determine which one of them is heavier.
- · Ask your child to tell something he/she can measure it in grams, and another something can measure it in kilograms.

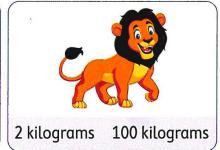


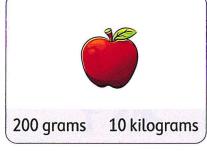




Look at each object. Circle the better estimation.









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Notes for parents

- Ask your child to show you something its mass is measured about $\frac{1}{2}$ kilogram and another one its mass is measured about 5 kilograms.
- Ask your child is there a dog weighs about 10 kg, and which object do you think weighs about 100 kg?

- Measuring mass
- Units of measuring mass

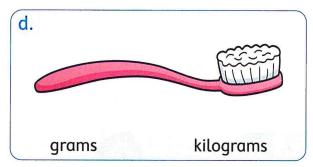
From the school book

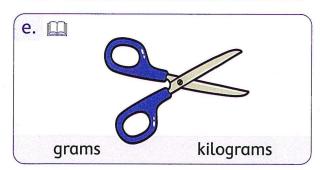
1 Circle the better unit you would use to measure the real object.

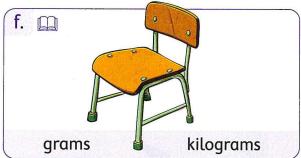




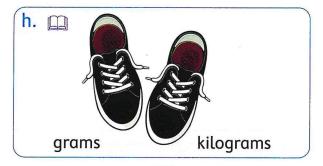


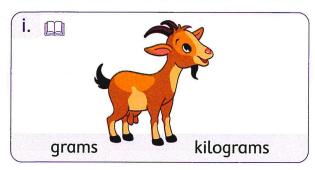


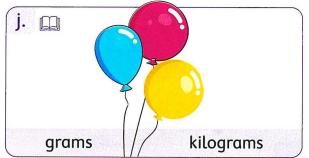




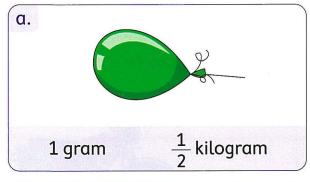


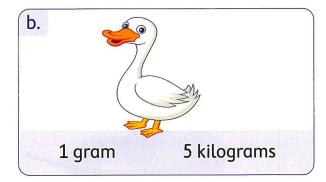






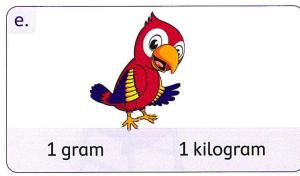
2 Look at each object. Circle the better estimation.

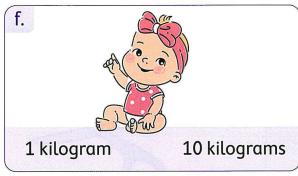




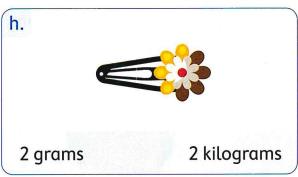


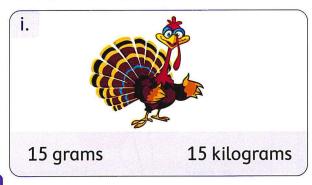


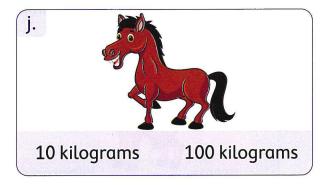




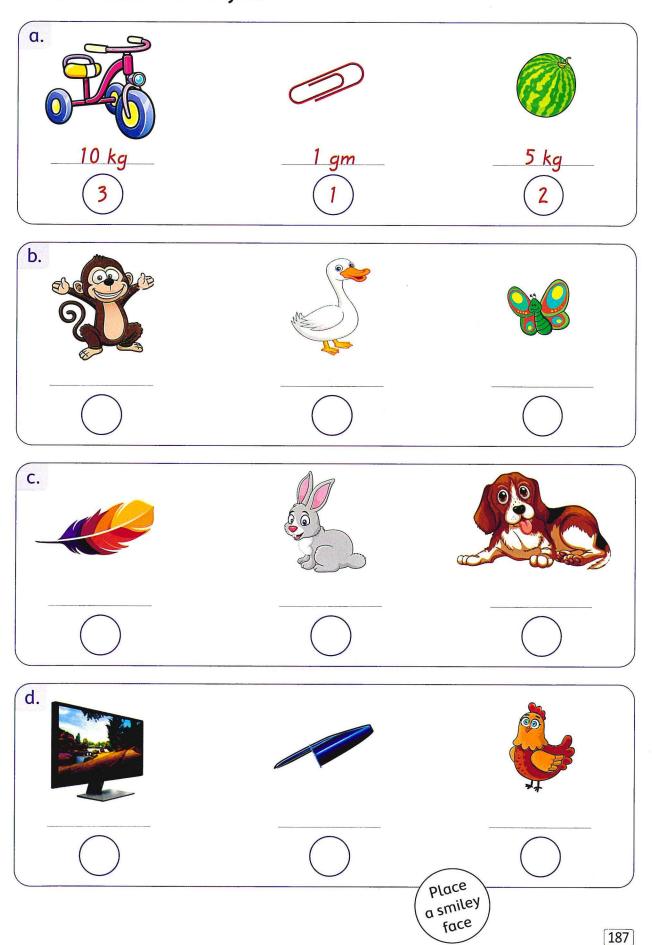








Estimate 1 gm, 5 kg or 10 kg, then arrange from least to greatest mass. The first one is done for you.



3 & 4

- Applications on measuring mass
- More applications on measuring mass



A fruit seller bought 56 kilograms of banana, he sold 14 kilograms of them.

How many kilograms of banana is left with him?

The left =
$$56 \text{ kg}$$
 - 14 kg = 42 kg



Wael has two balls that weigh 100 grams and 60 grams.

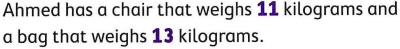
He put them both in his bag to take them to the club.

How much do Wael's balls weigh together?

The sum =
$$100 \text{ gm}$$
 + 60 gm = 160 gm



Check (



He wants to carry them at the same time.

How much do the chair and the bag weigh all together?





Notes for parents

• In this lesson, your child will use the strategies he/she has studied before to solve addition and subtraction word problems involving mass.

Exercise 26 On Lesson 3 & 4

- Applications on measuring mass
- More applications on measuring mass

From the school book

1	Fatima has a bicycle that weighs 12 kilograms. Her sister has a tricycle that weighs 9 kilograms. Their dad wants to carry them at the same time. How much do the bikes weigh all together?				
2	Mostafa has a bag of rocks that weighs 19 kilograms.				
	He found 7 more kilograms of rocks and put them in his bag.				
	How many kilograms of rocks does Mostafa have in his bag in all?				
3	🕮 Aisha has 1 dog that weighs 10 kilograms and				
	1 cat that weighs 5 kilograms. How much do both of				
	Aisha's pets weigh together?				
4	Mina has a baby boy that weighs 12 kilograms and a girl that weighs 27 kilograms. Mina wants to carry them at the same time. How much do they weigh all together?				

5	Karim has a box of crakers that weighs 78 grams. He eats 19 grams of crackers. How many grams of crackers are left in the box?
6	Raja has two toy balls that each weigh 100 grams. He puts them both in his bag to take to the park. How much Raja's toy balls weigh together?
7	Mukhtar had a bucket filled with 65 grams of sand to build a sandcastle. His friend brought another bucket with 26 grams of sand. How many grams of sand do they have all together to build a sandcastle?
8	Yasmin bought a bag of sugar that weighed 80 grams. She made cookies and used 20 grams of sugar. How many grams of sugar does Yasmin have left? Sugar

9	A fruit seller bought 37 kilograms of oranges and 53 kilograms of apples. How many kilograms he has in all?
10	Hany had a bag of potato chips that weighs 86 grams. He ate 23 grams of chips. How many grams of chips were left in the bag?
11	Heba bought a bag of flour that weighs 30 kilograms. She made a pizza for her friends and used 4 kilograms of flour. How many kilograms of flour did Heba have left?
12	Sameh bought 15 kg of mango, he used 9 kg of them to make juice. How many kilograms of mango were left?

Samy has a bag of mass 100 gm. In this bag, he puts a notebook of mass 90 gm.

What is the mass of the bag and the notebook?



Karim used 52 grams of salt and 25 grams of pepper to make a pizza.

What is the total mass of salt and pepper?



Amgd has two bags of marbles. One of them weighs 6 kg and the other weighs 7 kg, his friend collected two bags of marbles, one bag weighs 8 kg and the other weighs 4 kg.

How many kilograms of marbles do Amgd and his friend have in all ?



16 🕮 Heba collected two bags of seashells.

One weighed 4 kilograms and the other weighed 5 kilograms. Her sister collected two bags of seashells. One bag weighed 6 kilograms and the other weighed 5 kilograms. How many kilograms of seashells do Heba and her sister have in all?





Lessons

- Time "A.M. or P.M."
- Creating an analog clock

Remember Reading time

When the minute hand points to 12, it is o'clock.

minute hand hour hand



• These two clocks show time to the hour.



Analog clock

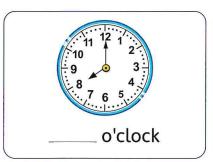


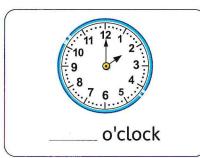
Digital clock





Write the time.







Notes for parents

• Explain that in one hour, the minute hand is making a full rotation around the clock, but the hour hand is moving between two numbers and moves much more slowly.



Time "A.M. or P.M."

• The day is 24 hours, the day is divided into two parts.

A.M. and P.M.

Noon is 12:00 in the day.



Midnight is 12:00 in the night.

A.M. is the half of the day in the morning time from 12 midnight until 12 noon.





07:00 A.M. is in the morning

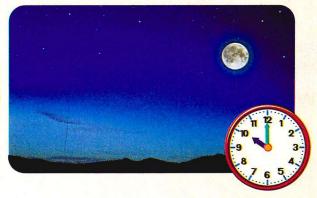


10:00 A.M. is in the morning

P.M. is the half of the day in the afternoon and evening time from 12 noon until 12 midnight.

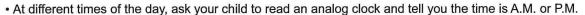


07:00 P.M. is in the evening

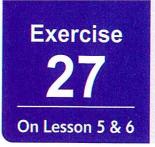


10:00 P.M. is in the evening





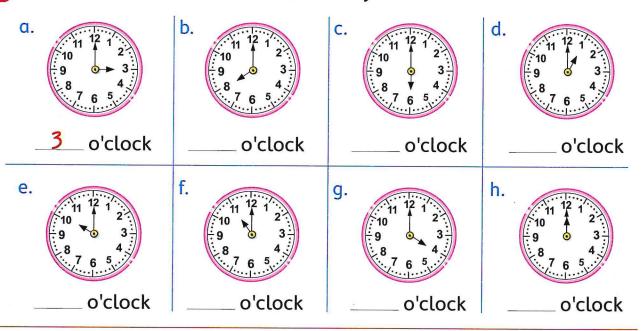
• Ask your child to name 3 activities that he/she does in the A.M. and 3 more activities that he/she does in the P.M.



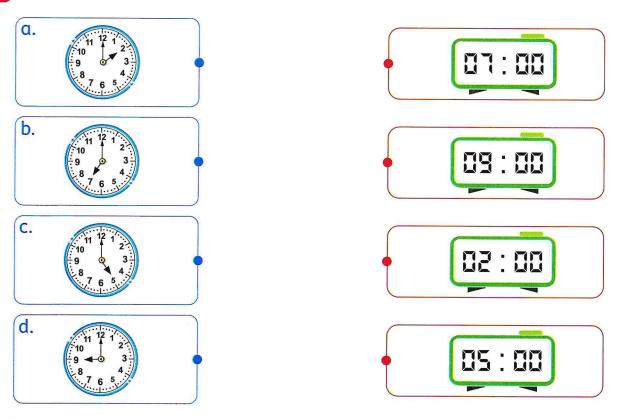
- Time "A.M. or P.M."
- Creating an analog clock

From the school book

1 Write the time. The first one is done for you.



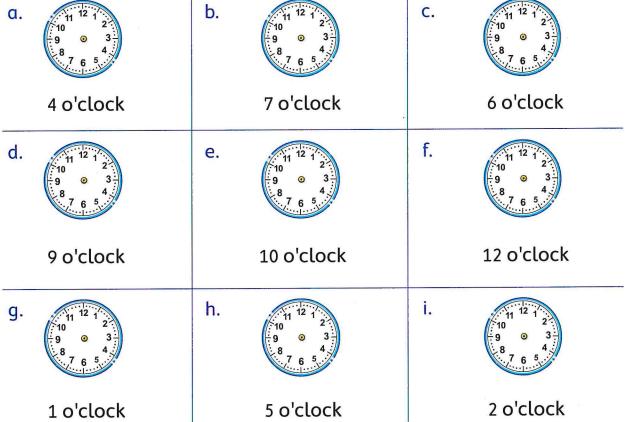
2 Join the two clocks that tell the same time.



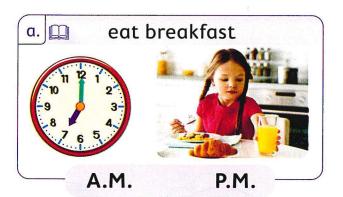
3 Write the time shown on the clock.

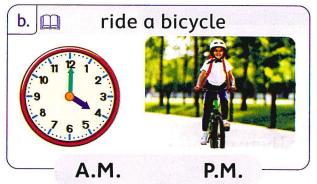
a.	9 o'clock	b.	11 o'clock	C.	4 o'clock
d.	6 o'clock	e.	5 o'clock	f.	1 o'clock
g.		h.	_:_	i.	
	12 o'clock		8 o'clock		3 o'clock

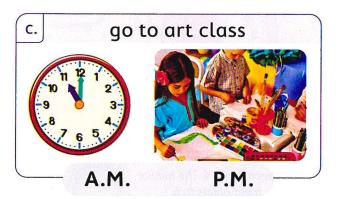
4 Show the time on the clock.

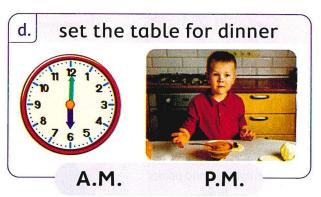


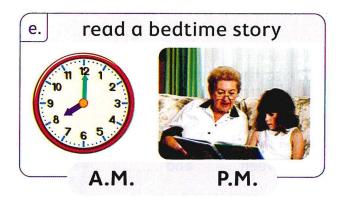
Decide if the activity happens in the A.M. or P.M. Circle the correct answer.



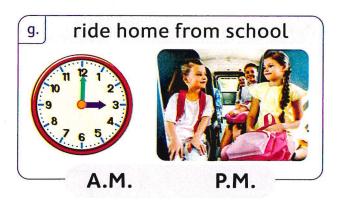
















Lessons 8

- Reading time with halves
- Applications on time

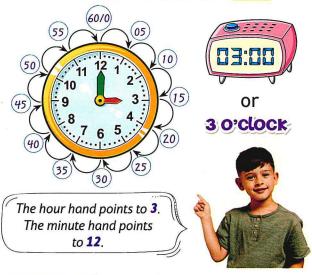


Remember

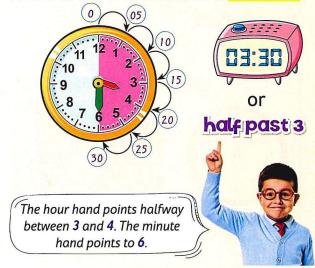
The minute hand moves from one number to the next in 5 minutes.



There are 60 minutes in 1 hour.



There are 30 minutes in a half hour.





Show the time. Where are the hands? Write the numbers. Write the time. The first one is done for you.

- The hour hand is halfway between 2 and 3
- The minute hand is at <u>6</u>
- Half past 2





- The hour hand is halfway between ____ and ____
- The minute hand is at ____

• The hour hand is halfway

•_____





- The hour hand is halfway between ____ and ____
- The minute hand is at ____





- between ____ and ____The minute hand is at ___





Notes for parents

Chapter 6 Lessons 7 & 8

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- At time on the half hour, ask your child to show you the minute hand and the hour hand on a clock and tell what time is it.
- Ask your child to say the times on the half hour in order, beginning with half past 1 (half past 1, half past 2, half past 3 and so on).

Exercise On Lesson 7 & 8

- Reading time with halves
- Applications on time

From the school book







b.



C.



d.



e.



f.









g.



h.



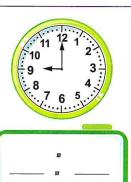
i.



j.



k.



l.



2 What time is it?

a.

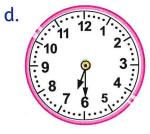


b.



C.





e.



f.



g.



h.



i.



j.



k.



l.





n.



0.



3 Match.

- a. Half past 10
- b. Half past 4
- c. Half past 11
- d. Half past 3





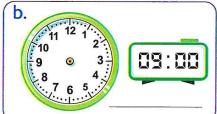


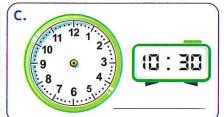


Draw the hour hand and the minute hand and write the time.

The first one is done for you.

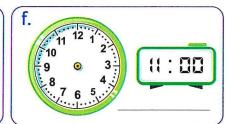


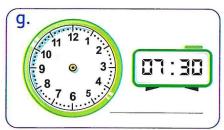












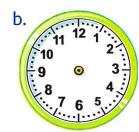




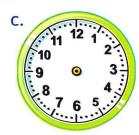
Draw the hour hand and the minute hand and write the time. The first one is done for you.

11 12 1 10 2 10 3 8 4 8 7 6 5

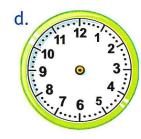




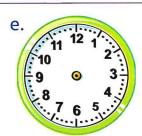






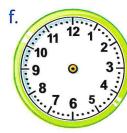








It's 3 o'clock



6 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a. **OS:30**

The time is half past 3

()

- b. [
- 02:00

The time is 2 o'clock

(

- C.
- סב:רם

The time is half past 7

(

d.



The time is half past 11

(

e.



The time is half past 12

(





The time is half past 9

1



Lessons

9 & 10

- Reading time in minutes
- More applications on time



Reading times with quarters

The minute hand has moved through one quarter of an hour. (15 minutes have passed)



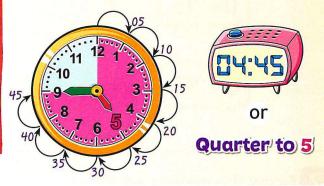
The minute hand has moved through three quarters of an hour. (45 minutes have passed)

The minute hand is pointing to 3

The hour hand is closer to 4

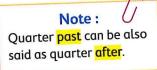


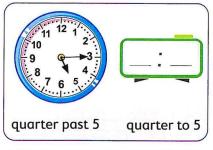
The minute hand is pointing to 9
The hour hand is closer to 5

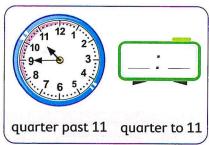


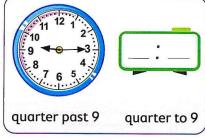


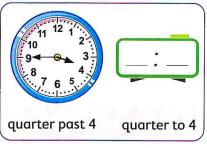
Write the time. Choose the correct answer.

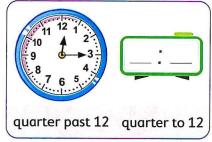


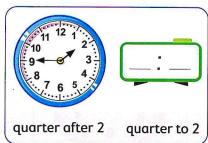












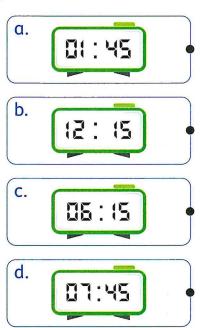
Notes for parents

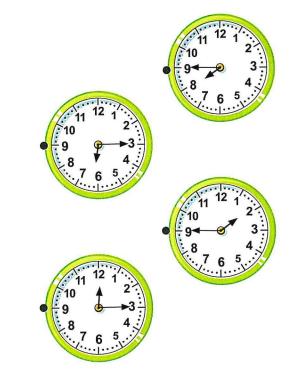
- Tell your child that one hour consists of 4 quarters, each quarter equals 15 minutes.
- Ask your child to practise skip counting by 5 to help him/her at telling time.

Exercise 29 On Lesson 9 & 10

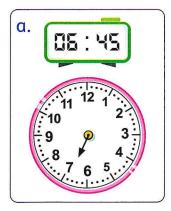
- Reading time in minutes
- More applications on time

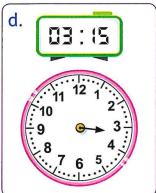
1 Match.

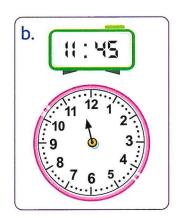


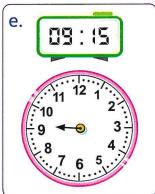


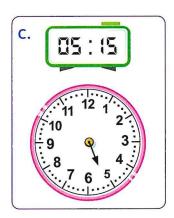
2 Draw the minute hand.

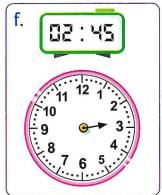




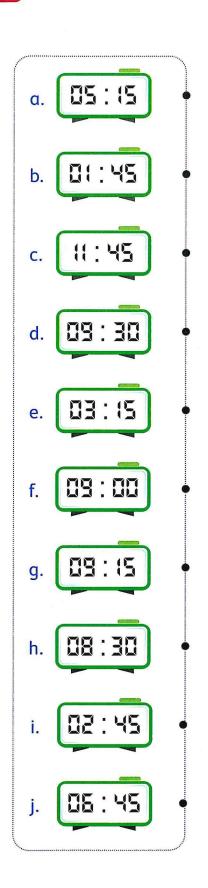


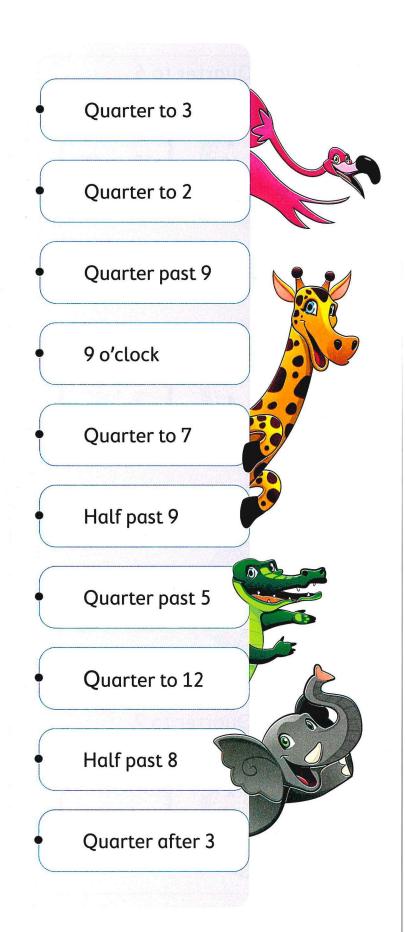




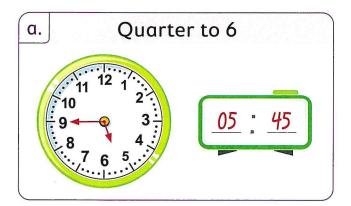


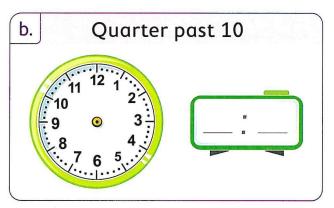
3 Match.

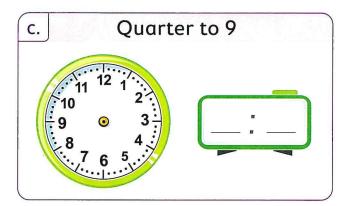


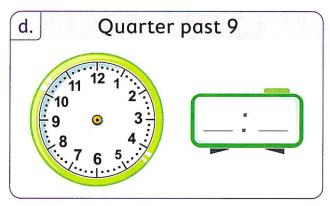


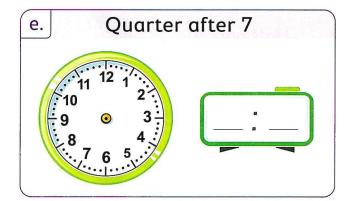
4 Show the time on the two clocks. The first one is done for you.

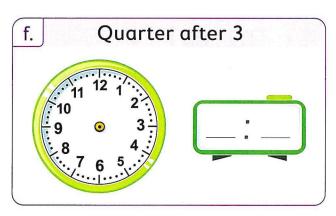


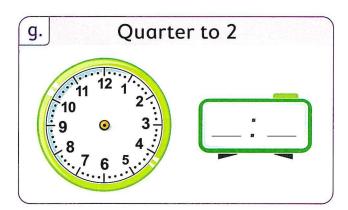


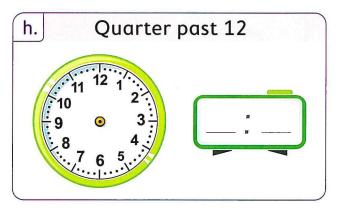




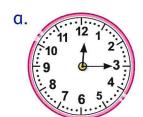








5 Write the time in two ways. The first one is done for you.



b.

C.

d.

Quarter past 12

e.



f.



g.





i.



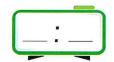






k.









Place a smiley face

The same of the sa MI , MG

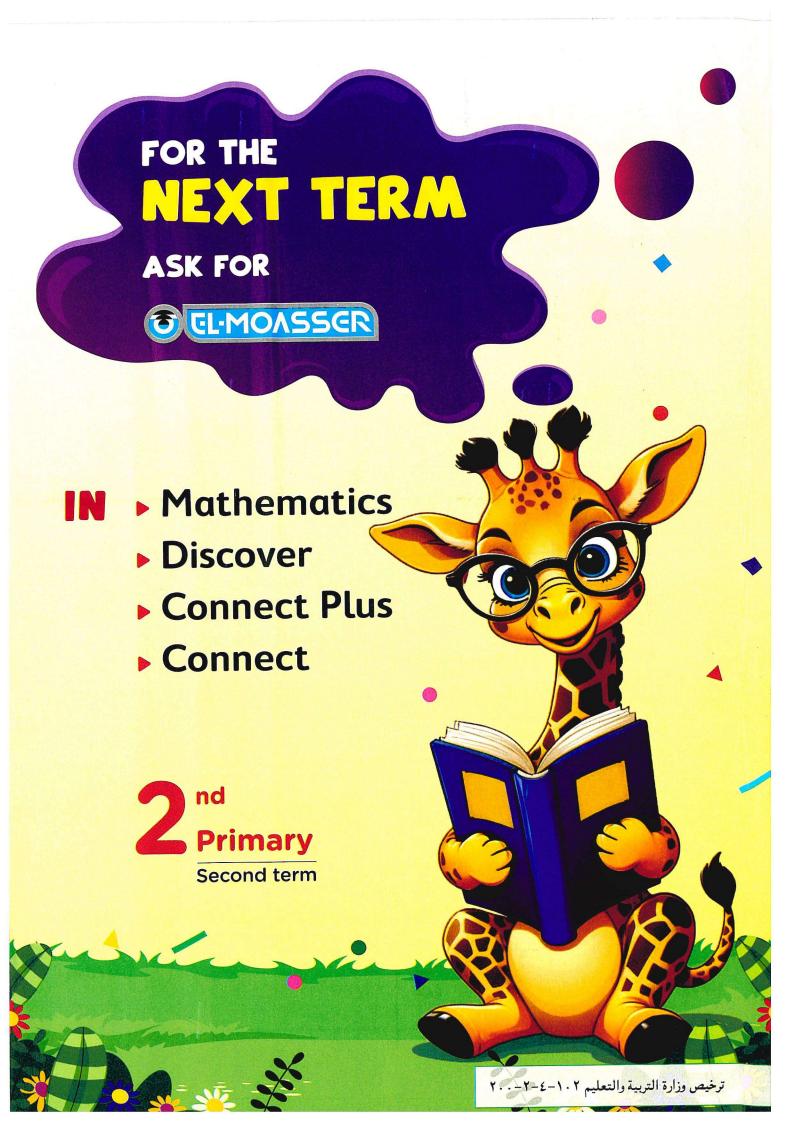
Α	
A.M.	صباحًا
accepted	مقبول
accumulative	تراکمی
actual	فعلى
add	يجمع
addend	ع المضاف
addition	الجمع
after	بعد
all	کل
altogether	معًا
analog clock	الساعة ذات العقارب
another	آخر
area	مساحة
ascending	تصاعدي
assessment	تقييم
attribute	خاصية
В	
backward	' للخلف
bar graphs	عمدة بيانية أعمدة بيانية
base	قاعدة
better	أفضل
bigger	أكبر
break apart	تقسيم
C	
calendar	تقویم
category	نوع
centimeter	سنتيمتر
challenge	تحدی
chart	مخطط
check	يتأكد
choose	يختار
circle	دائرة / يضع دائرة حول
closer to	أقرب إلى
color	يلوّن / لون
column	عمود
commutative	إبدال
compare	يقارن
comparing	مقارنة
complete	یکمل

components	مكونات
convert	يحوّل
correct	صحيح
counting	العد
counting back	العد للخلف
counting on	العد للأمام
cube	مکعب
cuboid	متوازی مستطیلات
curved face	وجه منحنی
cylinder	أسطوانة
	D
	U
data	بيانات
decide	يقرر
decompose	يحلل
decomposing	التحليل
descending	تنازلي
dice	حجر نرد
difference	فرق
different	مختلف
digit	رقم
digital clock	الساعة الرقمية
dimension	بُعد
distance	مسافة
double	مضاعفة
draw	يرسم
	-E
edge	
equal to	حرف
estimate	مساوٍ لـ - ت
estimation	يقدّر
	ד ق دير ער היה ער היה ה
expanded form extra	الصيغة الممتدة
extru	إضافى
face	وجه
fact	حقيقة
few	قلیل
fewer	أقل
fewest	الأقل
flat face	وجه مستوی
form	و. صيغة / شكل
forward	للأمام
	F32

	G
gram	جرام
graph	بیانی
greater	أكبر
greatest	الأكبر
group	مجموعة
	4
1 10	
half past	ونصف
halfway	منتصف المسافة
half	نصف
heavier	أثقل
heavy	ثقيل
hexagon	شكل سداسي الأضلاع
horizontal	أفقى
hour	ساعة
hour hand	عقرب الساعات
hundreds	مئات
	Π
incompost	
incorrect	غيرصحيح
information	بیانات
	J
join	يوصل
	V
	K
key	مفتاح
kilogram	كيلو جرام
	<u> </u>
label	 علامة / يضع علامة
last	العدد , یصنی العدد اخیر
learn	يتعلم
least	يونون الأقل
left	،باقی باقی
length	بونی طول
less	طون أقل
let	_{اف} ن يجعل
light	<i>يجعن</i> خفيف
lighter	حقیق أخف
long	طویل

M_	
make	يكوّن / يجعل
mass	كتلة
match	يوصل
measurement	قياس
mental math	رياضيات ذهنية
meter	متر
midnight	منتصف الليل
minute	دقيقة
minute hand	عقرب الدقائق
missing	مفقود / ناقص
model	نموذج
more	أكثر
most	الأكثر/معظم
move	يتحرك
N	
nonstandard	غ د د د د
noon	غیر معیاری
number	منتصف النهار
Humber	عدد
O	-
object	شی
ones	آحاد
opposite	مقابل
order	یرتب / ترتیب
or	أو
P	
P.M.	مساءً
parallel	مساء یوازی / متوازی
pattern	یواری / متواری نمط
pentagon	ست شكل خماسى الأضلاع
pictograph	التمثيل البيانى المصور
place value	السنین البیاتی السطور قیمة مکانیة
plan	خیمه میابیه بخطط
plus	يحطط زائد
prism	راند منشور
problem	مسكلة / مسألة
property	مسعه رمسانه خاصیة
pyramid	<i>ح</i> صیه هرم
7, 4,,,,	שניה

	0	I =	
and the	Q	- step	خطوة
quadrilateral	نبكل رباعي الأضلاع	stick	قضيب/عصا
quantity	مقدار / کمیة	strategy	استراتيجية
quarter past	وربع	subtract	يطرح
quarter to	راد ربع إلا ربع	subtraction	ی <i>ــرے</i> طرح
	R	subtrahend	صرح العدد المطروح
real		sum	مجموع
record	حقیقی	symbol	بيبيو <u>ح</u> رمز
rectangle	يسجل	T	_ ,
	مستطيل		
rectangular prism	متوازى مستطيلات	table	جدول
regroup	يعيد التجميع	take away	يطرح / يزيل
regrouping remained	إعادة التجميع	telling time	قراءة الوقت
	باقى	tens	عشرات
represent	یمثّل / یعرض	think	۔ یفکر
rest	باقى	three-dimensional	ً . ثلاثى الأبعاد
result	ناتج	till	حتی
rhombus	معین	together	معًا
row	صف	total	مجموع
ruler	مسطرة	trapezium	شبه منحرف
		trapezoid	شبه منحرف
same	_	triangle	مثلث
scale	نفس الشيء	two-dimensional	ثنائى الأبعاد
sentence	مقياس	U	
shape	جملة	understand	
short	شکل	unknown	يفهم
show	قصير	dikilowij	مجهول
side	يعرض	V	
skip counting	ضلع	value	
smaller	العد بالقفز	vertex	قيمة
solid	أصغر	vertical	رأس *
solve	مجسم	vertices	رأسى
solving	يحل	vote	رؤوس
sort	حل		رأى
sorting	يصنف	W	
sphere	تصنیف	way	طريقة / أسلوب
square	كرة	weigh	
standard form	مربع	weight	يزن
standard unit	الصيغة الرمزية	without	وزن . د دن
start	وحدة القياس المعيارية	word form	بدون الصيغة الكلامية
statement	يبدأ	work	الصيعة الكدمية يعمل / عمل
Jule Hell	عبارة		يعمل / عسن





GL-MOASSER Mathematics

الجــــزء الخــــاص بالمراجــــعة والتقييــــمات النهــــائية يُصــــرف مجـــــانًا مع الكـــــتاب

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