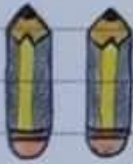


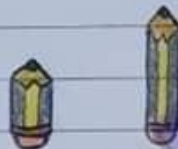
Chapter 1, Lessons 61 - 65

* Length : الطول

The same length
نفس الطول



different length
طول مختلف



short
قصير

long / tall
طويل

- Shorter than
- longer / taller than
- The shortest
- The longest / The tallest
- Unit
- measure
- How long ?

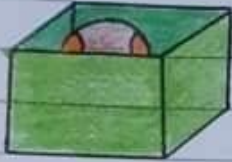
- اقصر من
- اطول من
- الاقصر
- الاطول
- وحده
- قياس
- ما طول ؟

Hanaa Haroon

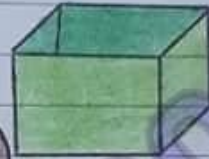
Relative positions

Hanaa Haroon

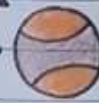
in (inside) داخل
out (out side) خارج



← The ball is in the box.



→ The ball is out the box.



Down أسفل
up أعلى/فوق

- The boy is going up.
- The girl is going down.



Above فوق
Below تحت



← The pen is above the book.



→ The pen is below the book.



On the right of على اليمين
On the left of على اليسار

The boy is on the right of the ball.
The girl is on the left of the ball.



Behind خلف
in front of أمام



The sun is behind the cloud.

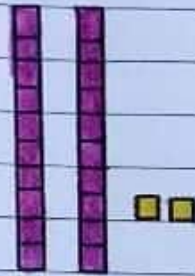


The sun is in front of the cloud.

Hanaa Haroon

Chapter 2

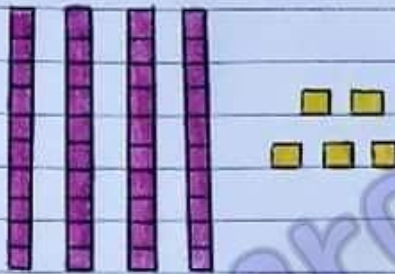
Tens and ones : العشرات والآحاد



2 tens + 2 ones

$$20 + 2$$

$$= 22$$



4 tens + 5 ones

$$40 + 5$$

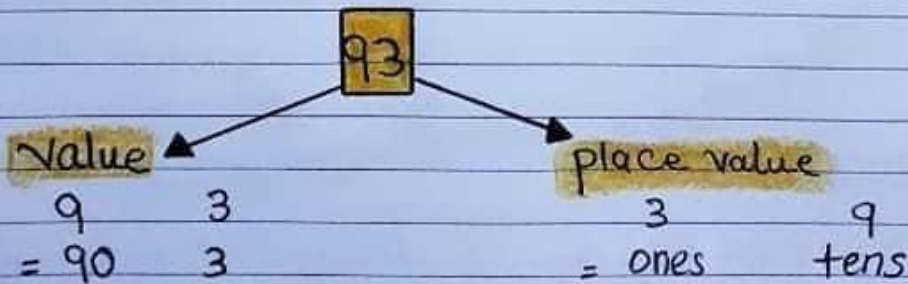
$$= 45$$

$$57 = 50 + 7$$

$$= 5 \text{ tens} + 7 \text{ ones}$$

Hanaa Haroon

value and place value القيمة الرقمية والمكانية



Comparing two numbers مقارنة عددين

greater than >

less than <

equal to =

* عند مقارنة رقمين

① نقارن tens digits

② نقارن ones digits

Ex:

$$\underline{5}3 > 4\underline{1}$$

$$\underline{5}3 < 5\underline{7}$$

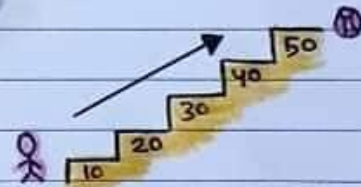
Hanaa Haroon

Ordering numbers ترتيب الأعداد

Ascending order:

From the least to the greatest.

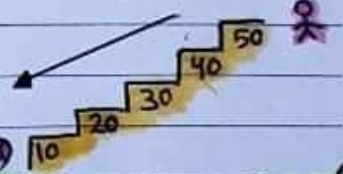
الترتيب التصاعدي من الأصغر إلى الأكبر



descending order:

From the greatest to the least.

الترتيب التنازلي من الأكبر إلى الأصغر

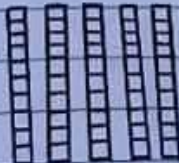


Subtracting multiples of 10

طرح مضاعفات الرقم ١٠

$$50 - 10 = 40$$

$$5 - 1 = 4$$



$$30 - 20 = 10$$

$$3 - 2 = 1$$



Complete:

7 tens =

thirty four =

3 ones =

3 tens =

forty three =

~~4~~ tens + ~~8~~ ones = 48

..... tens + ones = 73

..... ones + tens = 65

..... ones + tens = 42

..... tens + ones = 26

..... tens + ones = 54

..... tens + ones = 70

..... ones + tens = 55

4 tens + 4 ones =

2 tens + 6 ones =

9 ones + 9 tens =

3 ones + 1 ten =

9 ones + 8 tens =

3 tens + 6 tens =

47 = ~~40~~ + ~~7~~

63 = +

82 = +

59 = +

31 = +

90 = +

85 = +

30 = +

Hanaa Haroon

Complete:

$$\text{twenty six} = 20 + 6 = 26$$

$$\text{Fifty three} = \dots + \dots = \dots$$

$$\text{Seventy two} = \dots + \dots = \dots$$

$$\text{twenty two} = \dots + \dots = \dots$$

$$\text{ninety one} = \dots + \dots = \dots$$

$$\text{thirty four} = \dots + \dots = \dots$$

$$\text{Eighteen} = \dots + \dots = \dots$$

$$\text{Eighty} = \dots + \dots = \dots$$

$$\text{Sixty} = \dots + \dots = 69$$

$$\text{Six} = \dots + \dots = 36$$

$$\text{Four} = \dots + \dots = 44$$

$$\dots = \dots + \dots = 53$$

$$\dots = \dots + \dots = 15$$

$$\dots = \dots + \dots = 68$$

$$\dots = \dots + \dots = 70$$

$$\dots = 50 + 2 = \dots$$

$$\dots = 40 + 9 = \dots$$

$$\dots = 10 + 6 = \dots$$

$$\dots = 90 + 9 = \dots$$

$$57 = 5 \text{ tens} + 7 \text{ ones} = 50 + 7$$

$$68 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

$$13 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

$$98 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

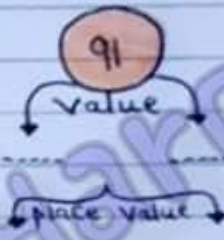
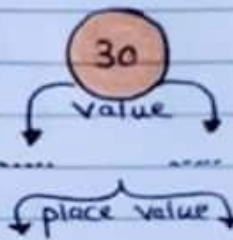
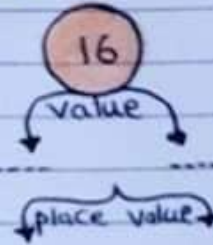
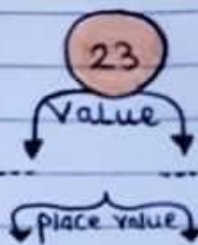
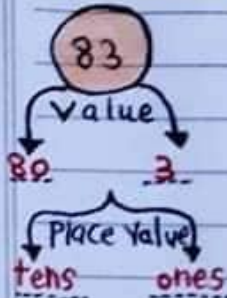
$$24 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

$$39 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

$$41 = \dots \text{ tens} + \dots \text{ ones} = \dots + \dots$$

Hanaa Haroon

Write the value and the place value:



Number	place value	value
25	Ones	5
42		
66		
15		
4		
30		
47		
35		
21		
10		
59		
9		

Hanaa Hatoon

⑥

Arrange in a descending order:

75, 35, 85 and 45

---, ---, --- and ---

36, 76, 46 and 96

---, ---, --- and ---

58, 10, 29 and 28

---, ---, --- and ---

14, 24, 42, and 40

---, ---, --- and ---

Arrange in an ascending order:

30, 71, 65 and 19

---, ---, --- and ---

94, 24, 92 and 22

---, ---, --- and ---

$10+30$, $50+10$, $40+30$ and $20+10$

-----, -----, ----- and -----

$30-10$, $50-10$, $40-30$ and $90-30$

-----, -----, ----- and -----

Hanad Haroon

Find the result:

$80 - 30 =$

$50 - 30 =$

$40 - 20 =$

$20 - 10 =$

$60 - 30 =$

$90 - 60 =$

$80 - 40 =$

$70 - 20 =$

$30 - 30 =$

$70 - 40 =$

put $>$, $<$ or $=$

54

61

84

48

70

72

37

40

4 tens, 2 ones

2 ones, 4 tens

5 tens

50

90 + 9

80 + 9

3 tens

3 ones

40 - 20

50 - 20

99

9 tens

6 ones

5 ones

Sixty

Sixteen

3 tens

4 ones

37

thirty one

8 + 80

80 + 7

50 + 2

20 + 5

30 - 10

40 - 20

Hanaa Haroon

Chapter 3

Hanaa Haroon

Subtracting tens : طرح العشرات :

Ex:

$$\begin{array}{r} 60 \\ - 30 \\ \hline \end{array} = 30$$

$$6 - 3 = 3$$

$$\begin{array}{r} 50 \\ - 20 \\ \hline \end{array} = 30$$

$$5 - 2 = 3$$

Ex:

Ali had 80 pounds and he spent 60 pounds.

How much money was left with Ali ?

The money left = $80 - 60 = 20$ pounds

Ex:

$$5 \text{ tens} - 4 \text{ tens} = 1 \text{ ten}$$

$$90 - 30 = 6 \text{ tens} / 60$$

problem Solving strategies on addition:

ايجاد القيمة المفقودة في حالة الجمع :

Ex:

5 red balls and 3 pink balls. How many balls are there?

The total sum = $5 + 3 = 8$ balls.

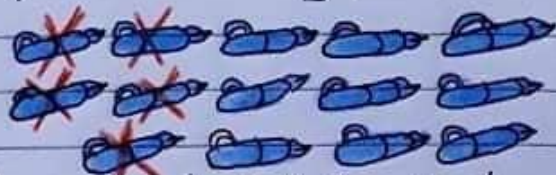
Ex:

Mona has 5 green pens., her friend gave her some extra pens, Now mona has 14 pens. How many pens did her friend give her?

$$5 + \dots = 14$$

$$14 - 5 = 9 \text{ pens.}$$

* في هذه الحالة يتم طرح 5 من 14



problem Solving Strategies on Subtraction:

ايجاد القيمة المفقودة في حالة طرح:

ex:

15 birds were flying, Some Landed on a tree and
6 still in the air.

How many birds landed on the tree?

$$15 - \dots = 6$$

$$15 - 6 = 9 \text{ birds.}$$



Hanaa Haroon

Ali had 15 pounds, he bought a Candy. Now he
has 10 pounds.

$$15 - ? = 10$$

$$15 - 10 = 5$$

Note:

في حالة الرقم المفقود

٢

ايجاد الرقم المفقود بطرح
العدد الموجودين

$$15 + \dots = 19$$

$$\dots + 15 = 19$$

$$19 - \dots = 15$$

١

ايجاد الرقم المفقود بالجمع للعدد
الموجودين

$$\dots - 15 = 4$$

الرقم الاول مفقود في
حالة الطرح دي الحالة الوحيدة
التي يتم بها الجمع

العد للأمام بالآحاد والعشرات / Counting forward by ones and tens

Ex:

by ones

Count forward by ones Start on 11:

12 $\xrightarrow{+1}$ 13 $\xrightarrow{+1}$ 14 $\xrightarrow{+1}$ 15 $\xrightarrow{+1}$ 16 $\xrightarrow{+1}$ 17* في هذه الحالة نضيف 1 لكل رقم $+1$

Ex:

by tens

Count forward by tens start on 2:

12 $\xrightarrow{+10}$ 22 $\xrightarrow{+10}$ 32 $\xrightarrow{+10}$ 42 $\xrightarrow{+10}$ 52 $\xrightarrow{+10}$ 62 $\xrightarrow{+10}$ 72* في هذه الحالة نضيف 10 لكل رقم $+10$

العد للخلف بالآحاد والعشرات / Counting backward by ones and tens

Ex:

by ones

Count backward by ones start on 50:

49 $\xrightarrow{-1}$ 48 $\xrightarrow{-1}$ 47 $\xrightarrow{-1}$ 46 $\xrightarrow{-1}$ 45 $\xrightarrow{-1}$ 44 $\xrightarrow{-1}$ 43 $\xrightarrow{-1}$ 42 $\xrightarrow{-1}$ 41* في هذه الحالة نطرح 1 لكل رقم -1

Ex:

by tens

Count backward by tens start on 79:

69 $\xrightarrow{-10}$ 59 $\xrightarrow{-10}$ 49 $\xrightarrow{-10}$ 39 $\xrightarrow{-10}$ 29 $\xrightarrow{-10}$ 19 $\xrightarrow{-10}$ 9* في هذه الحالة نطرح 10 لكل رقم -10

♥♥
Hanaa Haroon

Money

Counting money جمع المال

$$\boxed{20 \text{ L.E.}} + \boxed{5 \text{ L.E.}} = 25$$

$$20 + 5 = 25$$

$$\boxed{20 \text{ L.E.}} + \boxed{50 \text{ L.E.}} + \boxed{10 \text{ L.E.}} = 80$$

$$(20 + 50) + 10 = 80$$

$$\boxed{20 \text{ L.E.}} + \boxed{10 \text{ L.E.}} + \boxed{10 \text{ L.E.}} + \boxed{5 \text{ L.E.}} + \boxed{1 \text{ L.E.}} + \boxed{1 \text{ L.E.}} = 47$$

$$(20 + 10 + 10) + (5 + 1 + 1) = 47$$

Subtracting money طرح المال

$$\boxed{100 \text{ L.E.}} - \boxed{1 \text{ L.E.}} = 99 \rightarrow 100 - 1 = 99$$

$$\boxed{100 \text{ L.E.}} - \boxed{5 \text{ L.E.}} = 95 \rightarrow 100 - 5 = 95$$

$$\boxed{100 \text{ L.E.}} - \boxed{20 \text{ L.E.}} - \boxed{10 \text{ L.E.}} = 70 \rightarrow 100 - 30 = 70$$

$$100 - (20 + 10) = 70$$



Hanaa Haroon

Subtract :

$$8 \text{ tens} - 2 \text{ tens} = \dots\dots\dots$$

$$60 - 10 = \dots\dots\dots$$

$$90 - 30 = \dots\dots\dots$$

$$30 - 20 = \dots\dots\dots$$

$$90 - 60 = \dots\dots\dots$$

$$9 \text{ tens} - 4 \text{ tens} = \dots\dots\dots$$

$$50 - 10 = \dots\dots\dots$$

$$60 - 30 = \dots\dots\dots$$

$$80 - 70 = \dots\dots\dots$$

$$70 - 50 = \dots\dots\dots$$

$$3 \text{ tens} - 1 \text{ ten} = \dots\dots\dots$$

$$7 \text{ tens} - 4 \text{ tens} = \dots\dots\dots$$

Hanaa Haroon

Find the missing number :

$$\dots - 4 = 5$$

$$6 + \dots = 10$$

$$5 + \dots = 8$$

$$16 + \dots = 20$$

$$3 + \dots = 9$$

$$9 - \dots = 6$$

$$8 - \dots = 3$$

$$\dots - 4 = 5$$

$$\dots - 6 = 2$$

$$\dots - 3 = 3$$

$$6 - \dots = 5$$

$$7 - \dots = 4$$

$$7 + \dots = 9$$

$$\dots - 25 = 54$$

$$\dots - 16 = 32$$

$$74 + \dots = 95$$

$$7 + \dots = 5$$

$$\dots + 6 = 10$$

$$9 + \dots = 16$$

$$8 + \dots = 11$$

$$\dots + 10 = 15$$

$$\dots + 15 = 21$$

$$\dots - 3 = 76$$

$$\dots - 41 = 84$$

$$\dots - 13 = 70$$

$$88 - \dots = 52$$

$$47 - \dots = 20$$

$$\dots - 37 = 42$$

Count forward by tens :

- Start on 8

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 1

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 2

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 29

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

Count backward by ones :

- Start on 40

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 22

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 35

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 91

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

Count backward by tens :

- Start on 77

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 52

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 89

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

- Start on 68

----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 ----- 9 -----

Hanana Haroon

Count money :

$$10 \text{ le} + 10 \text{ le} + 50 \text{ le} + 1 \text{ le} + 1 \text{ le} = \dots$$

$$20 \text{ le} + 10 \text{ le} + 1 \text{ le} + 1 \text{ le} + 1 \text{ le} = \dots$$

$$50 \text{ le} + 20 \text{ le} + 10 \text{ le} = \dots$$

$$50 \text{ le} + 5 \text{ le} = \dots$$

Subtract money :

$$100 \text{ le} - 50 \text{ le} = \dots$$

$$100 \text{ le} - 20 \text{ le} = \dots$$

$$100 \text{ le} - 5 \text{ le} = \dots$$

$$100 \text{ le} - 1 \text{ le} = \dots$$

Answer the following :

- ① Ramy has 20 dogs , Some dogs escaped .
Now he has 8 dogs . How many dogs escaped ?
The total of the escaped dogs =

- ② Hatem has 4 green pens ♥ his father gave him
some extra pens . How many pens did his father give him .
The total of pens his father gave him =
now he has 14 pens .

Chapter 4

Subtracting multiples of 10 from 2 digit numbers:

الطرح باستخدام مفهوم القيمة المكانية:

- نقوم بطرح رقم الآحاد ثم العشرات.

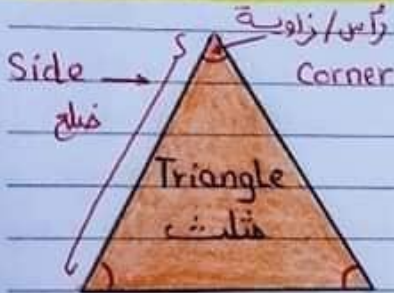
$$\begin{array}{r} 73 \\ - 21 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 73 \\ - 21 \\ \hline 52 \end{array}$$

Hanaa Haroon

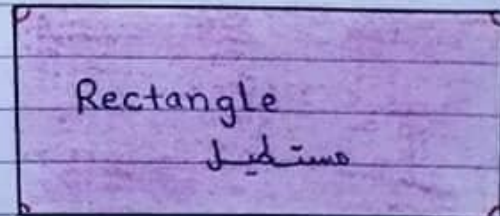
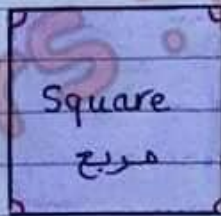
Two dimensional shapes / 2D shapes

اشكال ثنائية الابعاد



- 3 Corners 3 زوايا
- 3 Sides 3 أضلاع

- 0 side لا يوجد أضلاع
- 0 corner لا يوجد زوايا
- 1 Curved line خط منحنى



- 4 Sides equal in length 4 أضلاع متساوية في الطول
- 4 Corners 4 زوايا

- 4 sides 4 أضلاع
- 4 Corners 4 زوايا
- Each two opposite sides are equal in length.

كل ضلعين متقابلين متساويان في الطول

Adding multiples of 10 to two-digit numbers:

الجمع بمفهوم القيمة المكانية

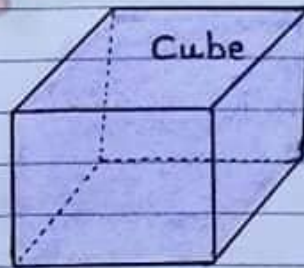
نقوم بجمع رقم الآحاد ثم رقم العشرات

$$\begin{array}{c} \textcircled{1} \quad \textcircled{2} \\ 25 + 31 = 56 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad \textcircled{1} \\ 25 \\ + 31 \\ \hline 56 \end{array}$$

Three-dimensional shapes / 3D shapes اشكال ثلاثية الابعاد / مجسمات

- Solid	مجسم	- Corner	زاوية
- Cube	مكعب	- face	وجه
- Cuboid	متوازي مستطيلات	- base	قاعدة
- pyramid	هرم	- edge	ضلع
- prism	منشور	- circular	دائرية
- Cone	مخروط	- Same size	نفس الحجم
- Sphere	كرة	- triangular	مثلثة
- cylinder	اسطوانة		



Hanaa Hatoon

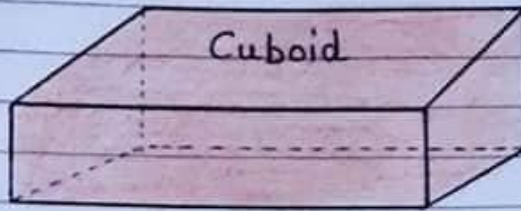
- 8 corners ٨ زوايا
- 12 edges ١٢ ضلع
- 6 flat faces ٦ أوجه مسطحة

Each face is a square.

كل الأوجه على شكل مربع

All faces has the same size

كل الأوجه لها نفس الحجم

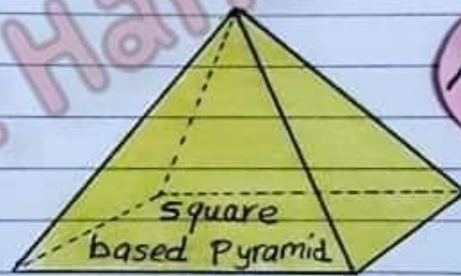


- 8 Corners ٨ زوايا
- 12 edges ١٢ ضلع
- 6 Flat faces ٦ أوجه مسطحة

- Each Face is a rectangle. كل وجه على شكل مستطيل

- Each two opposite faces have the same size.

كل وجهان متقابلان لهما نفس الحجم



هرم رباعي

- 5 Corners ٥ زوايا
- 8 edges ٨ أضلاع
- 5 Faces ٥ أوجه

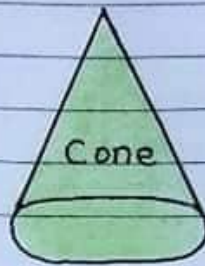
1 base / 1 square flat face 4 triangular flat faces

وجه واحد مربع (قاعدة المثلث) ٤ أوجه مثلثة

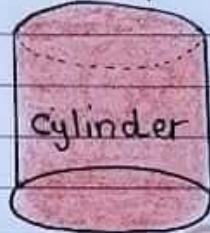
- 1 pointy top رأس في الأعلى مدببة

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4



- 0 corners لا يوجد زوايا
- 0 edges لا يوجد اضلاع
- 2 Faces (1 circular flat face + 1 curved)
رأس في الأعلى مدببة / قبة مدببة
- 1 pointy top

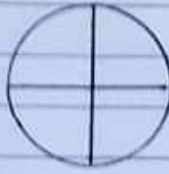


- 0 corners لا يوجد زوايا
- 0 edges لا يوجد اضلاع
- 3 Faces (2 circular flat faces + 1 curved)
وجهان دائريان و خط منحنى

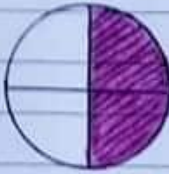


- 0 corners لا يوجد زوايا
- 0 edges لا يوجد اضلاع
- 1 curved face خط واحد منحنى

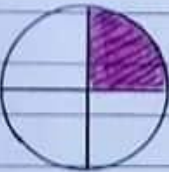
Half & Quarter النصف والربع



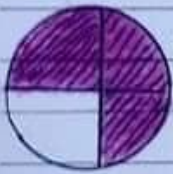
واحد كامل (هو الشكل كله بجميع اجزائه) ① one whole
 = 2 halves = $\frac{1}{2} + \frac{1}{2} = 1$ = نصفين
 = 4 quarters / 4 fourths = $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$ = اربع ارباع



النصف (هو جزء واحد فقط من جزأين متساويين) ② Half
 = 2 quarters / 2 fourths = $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$ = ربعان



الربع (هو جزء واحد فقط من 4 اجزاء) ③ Quarter / one fourth
 = $\frac{1}{4}$ = اربعة اجزاء متساوية



الثلاثة ارباع (هي 3 اجزاء من 4 اجزاء متساوية) ④ Three fourths
 = $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$
 = $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$



الاربعة ارباع (هي 4 اجزاء من 4 اجزاء متساوية اي انها واحد كامل) ⑤ Four fourths
 = $\frac{4}{4} = 1$

$$\frac{1}{2} + \frac{1}{2} = 1$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$$

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{4} = 1$$

$$\frac{3}{4} + \frac{1}{4} = 1$$

$$\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$$

Hanana Hatoon

Making number bonds

Ways to make 1

$0 + 1 = 1$

$1 + 0 = 1$

Ways to make 2

$0 + 2 = 2$

$1 + 1 = 2$

$2 + 0 = 2$

Ways to make 3

$0 + 3 = 3$

$1 + 2 = 3$

$2 + 1 = 3$

$3 + 0 = 3$

Ways to make 4

$0 + 4 = 4$

$1 + 3 = 4$

$2 + 2 = 4$

$3 + 1 = 4$

$4 + 0 = 4$

Ways to make 5

$0 + 5 = 5$

$1 + 4 = 5$

$2 + 3 = 5$

$3 + 2 = 5$

$4 + 1 = 5$

$5 + 0 = 5$

Ways to make 6

$0 + 6 = 6$

$1 + 5 = 6$

$2 + 4 = 6$

$3 + 3 = 6$

$4 + 2 = 6$

$5 + 1 = 6$

$6 + 0 = 6$

Ways to make 7

$0 + 7 = 7$

$1 + 6 = 7$

$2 + 5 = 7$

$3 + 4 = 7$

$4 + 3 = 7$

$5 + 2 = 7$

$6 + 1 = 7$

$7 + 0 = 7$

Ways to make 8

$0 + 8 = 8$

$1 + 7 = 8$

$2 + 6 = 8$

$3 + 5 = 8$

$4 + 4 = 8$

$5 + 3 = 8$

$6 + 2 = 8$

$7 + 1 = 8$

$8 + 0 = 8$

Ways to make 9

$0 + 9 = 9$

$1 + 8 = 9$

$2 + 7 = 9$

$3 + 6 = 9$

$4 + 5 = 9$

$5 + 4 = 9$

$6 + 3 = 9$

$7 + 2 = 9$

$8 + 1 = 9$

$9 + 0 = 9$

Ways to make 10

$0 + 10 = 10$

$1 + 9 = 10$

$2 + 8 = 10$

$3 + 7 = 10$

$4 + 6 = 10$

$5 + 5 = 10$

$6 + 4 = 10$

$7 + 3 = 10$

$8 + 2 = 10$

$9 + 1 = 10$

$10 + 0 = 10$

Hanaa Haroon

Chapter 5

Telling time إخبار الوقت

Analog clock

ساعة ذات عقارب



الساعة 5

5 o'clock

عندما تكون الساعة بالخط

نضع العقرب الكبير على 12

وذلك عندما تكون ونضع نصف

العقرب الكبير (الدقائق) على 6

Digital clock

ساعة رقمية

5 : 00

الساعة 5

5 o'clock

* في الـ Digital clock :

نكتب الرقم ثم نضع 00

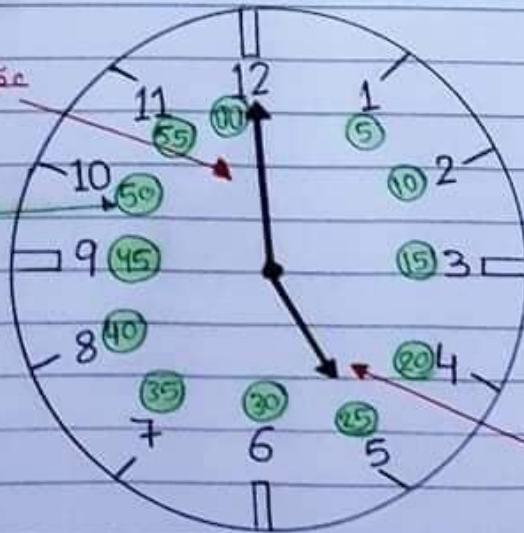
لنكتب بالخط أو تماماً

وعندما تكون ونضع نصف 30

1 Day = 24 hours

عقرب الدقائق (الكبير)

في حالة الدقائق



ساعة hour

دقيقة minute

1 hour =

60 minutes

عقرب الساعات
يكتب كما هو.