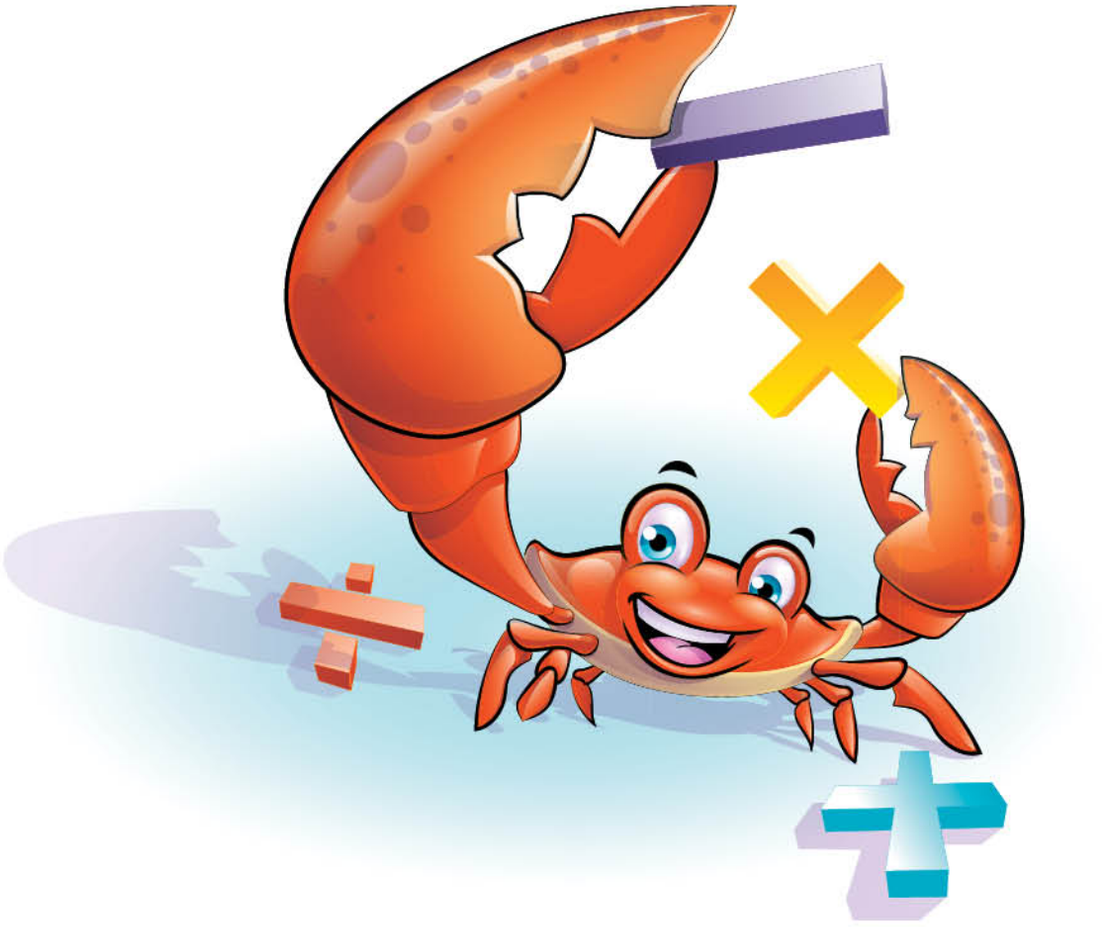
EL-MOASSER

April Tests

From lesson (5) - unit (10)
To the end of lesson (3) - unit (12)

Mathematics



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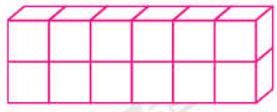
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April Models

Model 1

First group **Choose the correct answer:**

(1) Number of horizontal layers of the opposite solid = _____



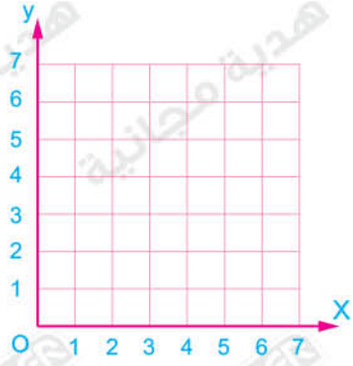
a. 2 b. 3 c. 6 d. 7

(2) Which of the following points located on x-axis?

a. (1,1) b. (2,0) c. (0,2) d. (1,2)

Second group **Answer the following questions:**

(1) Plot the following points on the opposite coordinate plane: A (2,2),B (2,5),C (6,5),D (6,2), connect the points in order, then write the name of the shape ABCD.



(2) The following table shows the number of hours that Ahmed spent in studying in different subjects in a week:

Arabic	Maths	Science	English	Total
12	6	3	3	24

Represent this data by a pie chart.

(3) **Write the name of each of the following:**

(a) The solid which has no edges, no faces and no vertices. _____

(b) The solid which has 2 circular bases, no edges and no vertices. _____

(4) A cuboid whose volume is 600 cm^3 and its base area is 60 cm^2 Find its height.

Model 2

First group **Choose the correct answer from the given ones:**

(1) The solid which has 1 flat face and 1 vertex is a _____

a. sphere. b. cylinder. c. square pyramid. d. cone.

(2) In the opposite number line:

The length of $\overline{BC}$ = _____ units.

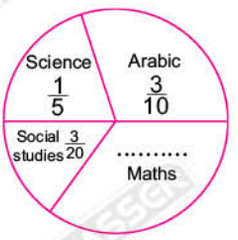


a. $1\frac{1}{2}$ b. 2 c. $2\frac{1}{2}$ d. 3

Second group **Answer the following questions:**

(1) Find the volume of a cuboid of base area 18 cm^2 and height 2 cm.

(2) The opposite figure shows the fractions of time that Enas spends in studying different subjects.



Find: (a) The decimal of the time that Enas spends in studying Maths. _____

(b) The measure of the central angle of science in degrees. _____

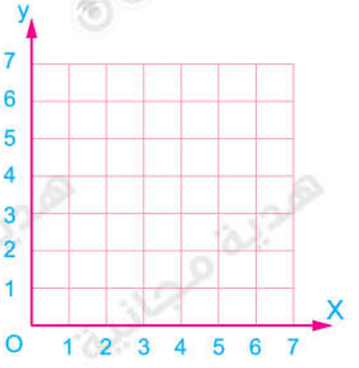
(3) In the opposite coordinate plane:

Graph the figure ABCD,

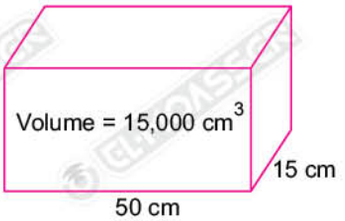
where A (3,6), B (2,3), C (5,3), D (6,6).

(a) What is the name of the figure ABCD ?

(b) Find the length of $\overline{AD}$



(4) Find the height of the opposite cuboid.



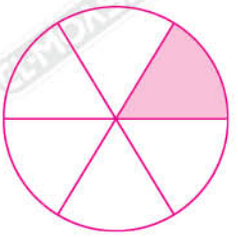
Model 3

First group **Choose the correct answer from the given ones:**

(1) A cuboid has 2 horizontal layers and 12 cube units in each layer, then its volume = _____ cube units.

a. 14 b. 24 c. 36 d. 48

(2) The measure of the central angle that represents the shaded sector is _____



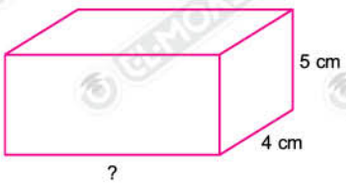
a. 30° b. 50°

c. 60° d. 120°

Second group **Answer the following questions.**

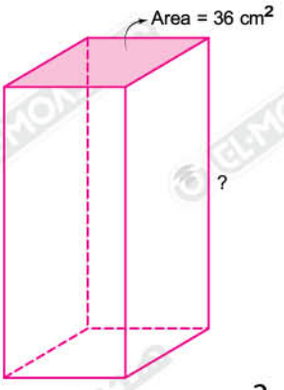
(1) Find the missing dimension in each of the following, where the volume is known:

a.



Volume = 400 cm^3

b.



Volume = 360 cm^3

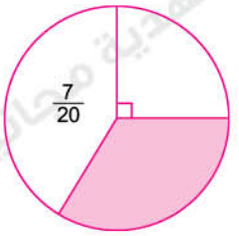
(2) Sara is selling bags of cookies to make extra money, she earns 10 L.E for each bag of cookies. Complete the following table, then graph the points on the coordinate grid.

Bags of cookies	2	4	5	6
Money earned in L.E.				



(3) **In the opposite figure:**

Find the missing fraction of the shaded sector of the pie chart.



(4) **Use the opposite number line to answer the following questions.**



a. Find the values of A and B.

b. Find the distance between the two points A and B.

Model 4

First group **Choose the correct answer from the given ones:**

(1) The measure of the central angle of the circular sector that represents $\frac{1}{3}$ of the circle = _____ °

a. 60 b. 90 c. 120 d. 150

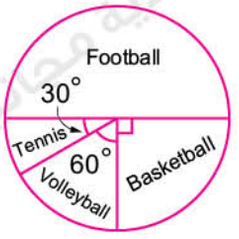
(2) The solid which has 12 edges, 8 vertices and 6 faces is a _____

a. cube. b. cylinder. c. sphere. d. cone.

Second group **Answer the following questions:**

(1) **In the opposite pie chart:**

Complete the following table:

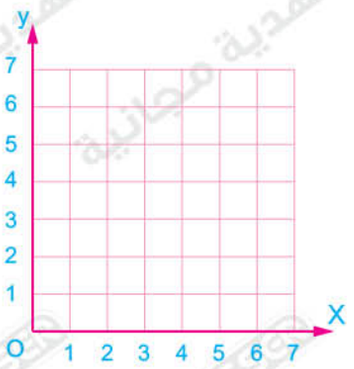


Sport	Football	Basketball	Volleyball	Tennis
Fraction				

(2) Find the length of a cuboid of volume 480 cm^3 , width 4 cm and height 12 cm.

(3) **In the opposite coordinate plane:**

Graph the figure ABCD, where A (1 , 5), B (1 , 2), C (6 , 2), D (6 , 5)

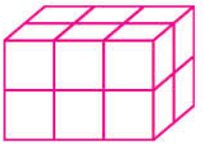


a. What is the name of the figure ABCD? _____

b. $\overline{AD}$ // _____

c. AD = _____ length units.

(4) **Use the opposite solid to answer the following questions.**



a. What is the name of the opposite solid ?

b. What is the volume of it ?

Model 5

First group **Choose the correct answer from the given ones:**

(1) The values of the missing numbers in the table are _____

x values	3	6	9	12	15
y values	5	7	9		

a. 12, 14 b. 11, 13 c. 10, 12 d. 11, 14

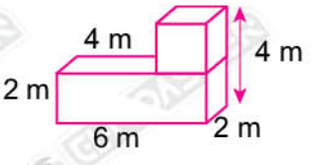
(2) The solid which has 8 vertices is a _____

a. square pyramid. b. sphere.

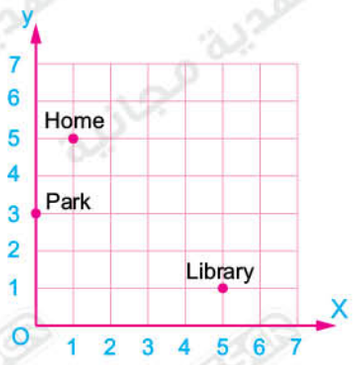
c. cuboid. d. cone.

Second group **Answer the following questions.**

(1) What is the volume of the given compound Shape ?



(2) **Using the coordinate grid, name the ordered pairs that represent each of:**



a. The home

b. The library

c. The park

(3) **Use the number line to answer the following questions.**



a. What is the values of each of A and B ?

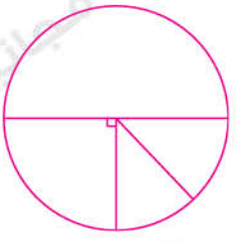
b. How far is the point C from the point A ?

(4) **The following table shows the favorite ice cream of a group of 80 pupils.**

Ice Cream	Mango	Chocolate	Vanilla	Mastic
Frequency	40		10	10

a. Complete the table.

b. Write the data on the opposite pie chart.



Answers of April Models

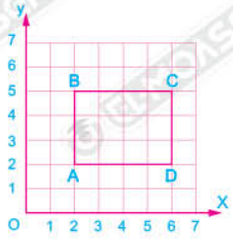
Model 1

First group

1. (a) 2. (b)

Second group

1.



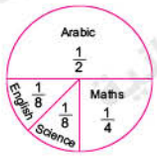
ABCD is a rectangle

2. Arabic $= \frac{12}{24} = \frac{1}{2}$

Maths $= \frac{6}{24} = \frac{1}{4}$

Science $= \frac{3}{24} = \frac{1}{8}$

English $= \frac{3}{24} = \frac{1}{8}$



3. a. Sphere b. Cylinder

4. The height $= \frac{\text{volume}}{\text{base area}} = \frac{600}{60}$ 10 cm

Model 2

First group

1. (d) 2. (a)

Second group

1. The volume = base area × height

$= 18 \times 2 = 36 \text{ cm}^3$

2. a. The fraction for studying Maths

$= 1 - [\frac{3}{10} + \frac{1}{5} + \frac{3}{20}]$

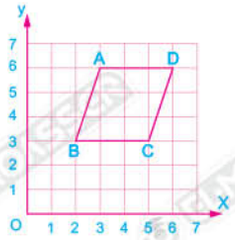
$= 1 - [\frac{6}{20} + \frac{4}{20} + \frac{3}{20}] = \frac{20}{20} - \frac{13}{20}$

$= \frac{7}{20} = 0.35$

b. The measure of the central angle of science

$= \frac{1}{5} \times 360° = 72°$

3.



a. ABCD is a parallelogram.

b. AD = 3 length units.

4. The height $= \frac{15{,}000}{50 \times 15} = 20$ cm

Model 3

First group

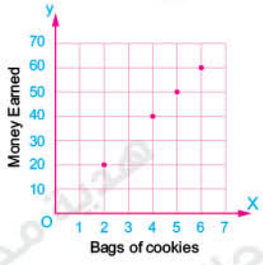
1. (b) 2. (c)

Second group

1. a. $L = \frac{400}{4 \times 5} = 20$ cm b. $h = \frac{360}{36} = 10$ cm

2.

Bags of cookies	2	4	5	6
Money earned in L.E.	20	40	50	60



3. The fraction which represents the quarter of a circle $= \frac{1}{4}$

The fraction of the shaded sector

$= 1 - (\frac{7}{20} + \frac{1}{4}) = \frac{20}{20} - (\frac{7}{20} + \frac{5}{20})$

$= \frac{20}{20} - \frac{12}{20} = \frac{8}{20} = \frac{2}{5}$

4. a. A = 2 , B = 6 b. AB = 6 - 2 = 4

Model 4

First group

1. (c) 2. (a)

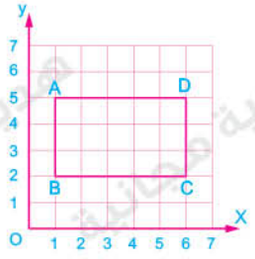
Second group

1.

Sport	Football	Basketball	Volleyball	Tennis
Fraction	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{12}$

2. $L = \frac{480}{4 \times 12} = 10$ cm

3.



a. Rectangle

b. $\overline{AD}$ // $\overline{BC}$

c. 5 length units.

4. a. Cuboid

b. The volume = $3 \times 2 \times 2 = 12$ cube units.

Model 5

First group

1. (b) 2. (c)

Second group

1. The volume of the larger cuboid

$= 6 \times 2 \times 2 = 24\ m^3$

, the volume of the smaller cuboid

$= 2 \times 2 \times 2 = 8\ m^3$

, the total volume of the compound shape

$= 24 + 8 = 32\ m^3$

2. a. The home (1, 5)

b. The library (5, 1)

c. The park (0, 3)

3. a. A = 3 , B = 8

b. 6 units.

4. a. Chocolate = 80 – (40 + 10 + 10) = 20

b. Mango = $\frac{40}{80} = \frac{1}{2}$

Chocolate = $\frac{20}{80} = \frac{1}{4}$

Vanilla = $\frac{10}{80} = \frac{1}{8}$

Mastic = $\frac{10}{80} = \frac{1}{8}$

