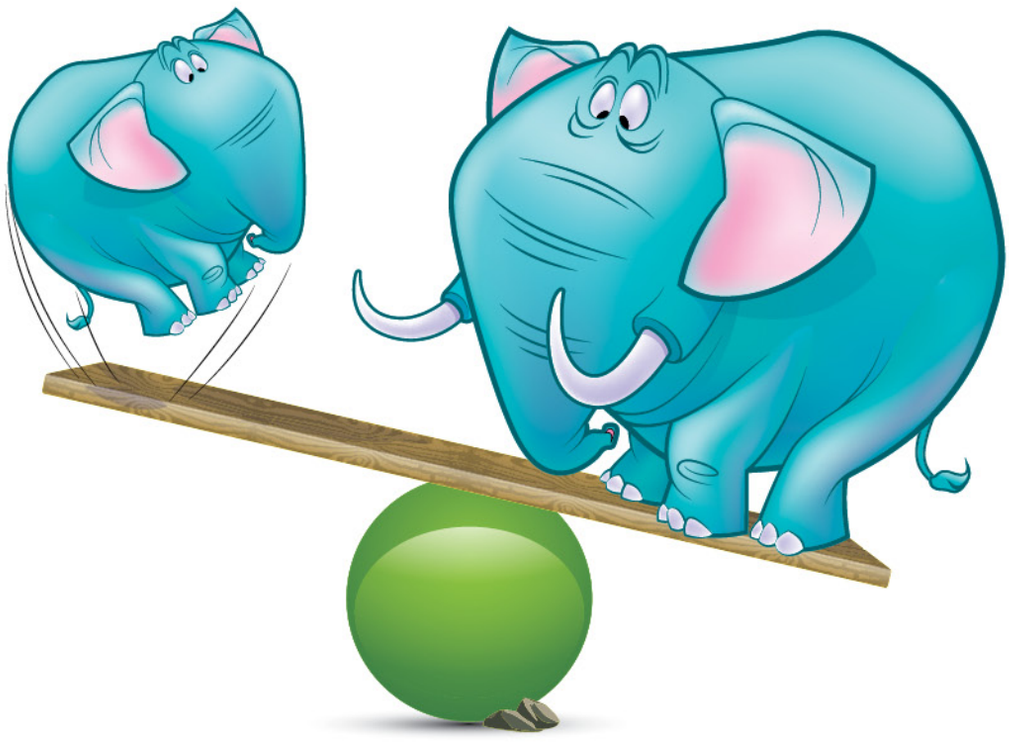
EL-MOASSER

April Tests

From lesson (1) - unit (11)
To the end of lesson (4) - unit (13)

Mathematics



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April Models

Model 1

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

(1) The point (3 , – 5) lies in the _____ quadrant.

a. first b. second c. third d. fourth

(2) If the base length of a triangle is 8 cm, and its corresponding height is 6 cm, then its area = _____ cm^2

a. 12 b. 24 c. 48 d. 28

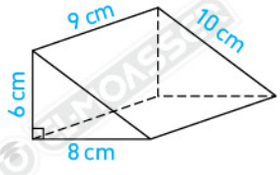
Second group **Answer the following questions:**

(1) The two base lengths of a parallelogram are 8 cm, 6 cm and the greater height is 4 cm. Calculate :

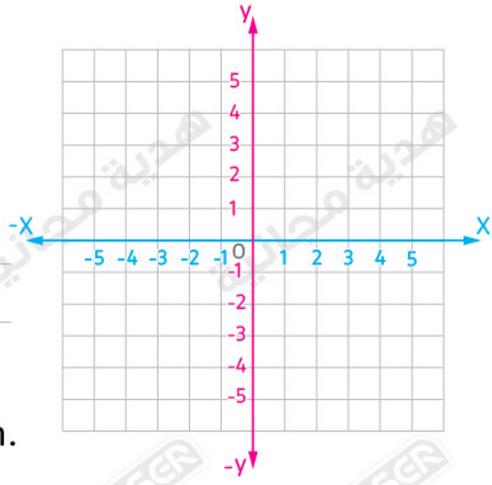
a. The area of the parallelogram.

b. The smaller height.

(2) Find the surface area of the given triangular prism.



(3) Using graph paper, plot the points A (– 3 , 2) , B (2 , 2) , C (2 , – 3), then find the coordinates of the point D which makes the figure ABCD a square.



(4) Find the volume of the cuboid whose base area is 36 cm^2 and its height is 4.5 cm.

Model 2

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

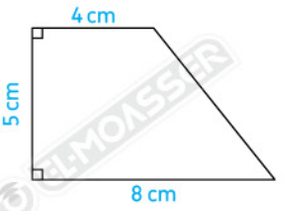
(1) The image of the point (3 , 0) by reflection across the y-axis is the point _____

a. (3 , 0) b. (– 3 , 0) c. (0 , 3) d. (0 , – 3)

(2) The area of the opposite trapezium = _____ cm^2

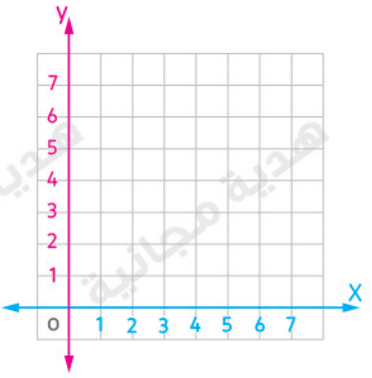
a. 15 b. 30

c. 60 d. 80

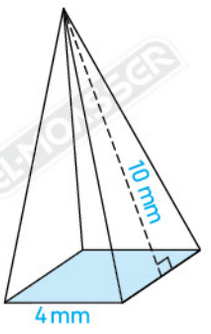


Second group **Answer the following questions:**

(1) Plot the following points on the coordinate plane and connect the points in order A (2 , 2) , B (2 , 6) , C (5 , 6) , then find the name of the figure and the length of $\overline{AB}$.



(2) Find the surface area of the opposite square pyramid.

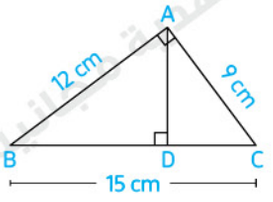


(3) In the opposite figure:

ABC is a right-angled triangle at A , $\overline{AD} \perp \overline{BC}$,
AB = 12 cm, AC = 9 cm, BC = 15 cm

Find: a. The area of Δ ABC

b. The length of $\overline{AD}$



(4) Find the volume of the cuboid whose length is 10 cm ,its width is 6 cm, and its height is 5 cm.

Model 3

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

(1) The distance between (– 1 , 3) , (6 , 3) equals _____ units.

a. 0 b. 5 c. 7 d. 16

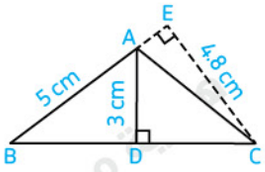
(2) A rhombus with side length 12 cm and height 6 cm, then its area = _____ cm^2

a. 36 b. 18 c. 72 d. 144

Second group **Answer the following questions:**

(1) In the opposite figure:

Find the area of Δ ABC.



(2) If the perimeter of one face of a cube is 24 cm, calculate its surface area.

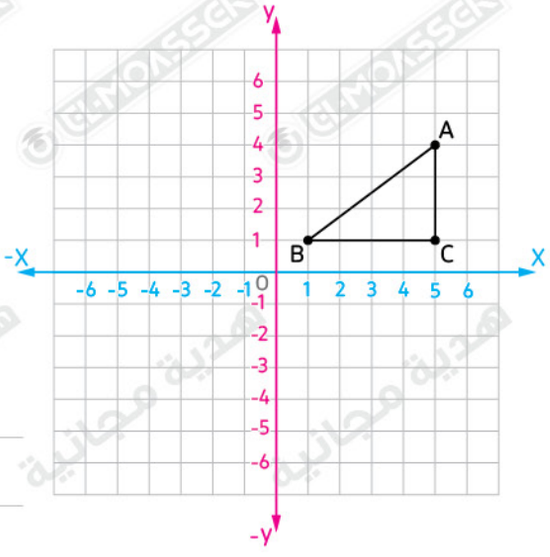
(3) In the opposite graph paper:

a. Identify the coordinates of A and B

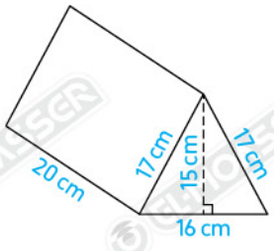
A (____ , ____)

B (____ , ____)

b. Draw the image of Δ ABC by reflection across the x-axis.



(4) Find the surface area of the opposite triangular prism.



Model 4

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

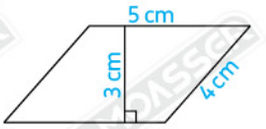
(1) The distance between the point (– 4 , 6) and the y–axis is ..... units.

a. 6 b. 0 c. 4 d. – 4

(2) The area of the opposite parallelogram = ... cm^2

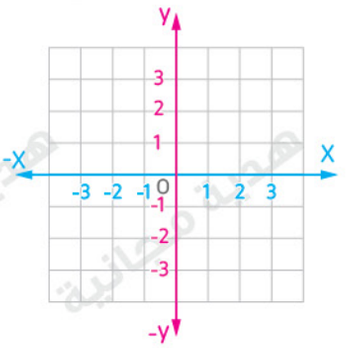
a. 20 b. 15

c. 12 d. 60



Second group **Answer the following questions:**

(1) Plot the points A (– 2 , 2) , B (3 , 2) , C (3 , 0) , D (– 2 , 0), then what is the name of the figure ABCD ? Find its perimeter.



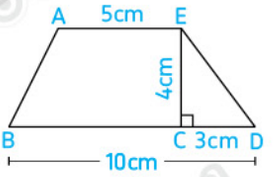
(2) Find the surface area of the cuboid of dimensions 4 cm , 3 cm , 2 cm

(3) In the opposite figure:

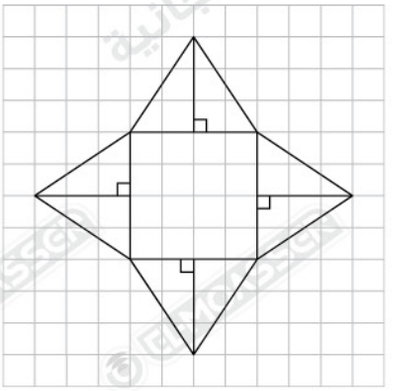
$\overline{EC} \perp \overline{BD}$, AE = 5 cm, EC = 4 cm, CD = 3 cm, BD = 10 cm

Find: a. The area of Δ ECD

b. The area of trapezium ABCE



(4) By folding the opposite shape , name the solid formed , then find its surface area in square units.



Model 5

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

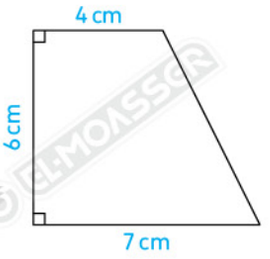
(1) If the point (a – 1 , 1) lies on y–axis , then the value of a = _____

a. 0 b. – 1 c. 1 d. 2

(2) The area of the opposite trapezium is _____ cm^2

a. 42 b. 66

c. 24 d. 33

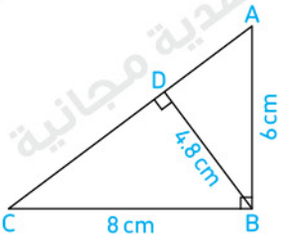


Second group **Answer the following questions:**

(1) In the opposite figure :

ABC is a right - angled triangle at B , $\overline{BD} \perp \overline{AC}$,

AB = 6 cm, BC = 8 cm, BD = 4.8 cm, find :



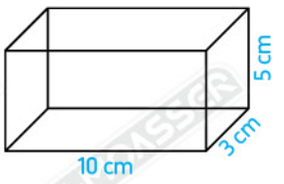
a. The area of triangle ABC

b. The length of $\overline{AC}$

(2) Find the distance between the two points (4 , – 1) and (4 , 5).

(3) If the area of a rhombus is $24cm^2$, its side length is 5 cm, find its height.

(4) Find the volume of the opposite cuboid.



Answers of April Models

Model 1

First group

1. (d) 2. (b)

Second group

1. (a) The area = b × h = 6 × 4 = 24 cm^2

(b) The smaller height = $\frac{24}{8}$ = 3 cm

2. The surface area

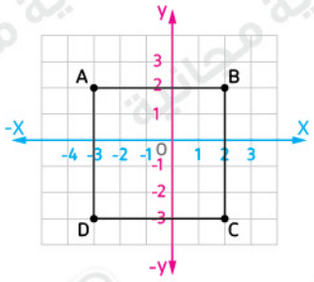
= [6 × 9] + [8 × 9] + [10 × 9]

+ [$\frac{1}{2}$ × 6 × 8] + [$\frac{1}{2}$ × 6 × 8]

= 54 + 72 + 90 + 24 + 24

= 264 cm^2

3.



ABCD is a square , then D (– 3 , – 3)

4. The volume = base area × height = 36 × 4.5

= 162 cm^3

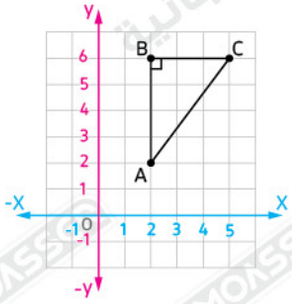
Model 2

First group

1. (b) 2. (b)

Second group

1.



ABC is a triangle, AB = 4 units

2. The surface area

= (4 × 4) + 4 × ($\frac{1}{2}$ × 4 × 10)

= 16 + 80 = 96 mm^2

3. (a) The area of Δ ABC = $\frac{1}{2}$ × b × h

= $\frac{1}{2}$ × 12 × 9 = 54 cm^2

(b) AD = $\frac{A}{\frac{1}{2} \times b}$ = $\frac{54}{\frac{1}{2} \times 15}$ = 7.2 cm

4. The volume = l × w × h = 10 × 6 × 5

= 300 cm^3

Model 3

First group

1. (c) 2. (c)

Second group

1. The area of Δ ABC = $\frac{1}{2}$ × b × h = $\frac{1}{2}$ × 5 × 4.8

= 12 cm^2

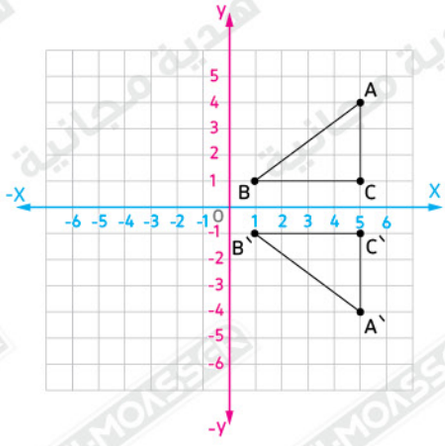
2. The side length of a face = 24 ÷ 4 = 6 cm

The surface area = 6 × s × s = 6 × 6 × 6

= 216 cm^2

3. (a) A (5 , 4) , B (1 , 1)

(b)



$\grave{A}$ (5 , – 4) , $\grave{B}$ (1 , – 1) , $\grave{C}$ (5 , – 1)

4. The surface area = [17 × 20] + [17 × 20] + [16 × 20]

+ 2 [$\frac{1}{2}$ × 16 × 15] = 340 + 340 + 320 + 240

= 1240 cm^2

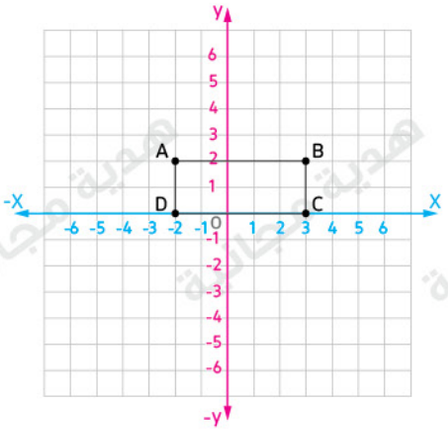
Model 4

First group

1. (c) 2. (b)

Second group

1.



ABCD is a rectangle

The perimeter = (L + w) × 2 = (5 + 2) × 2

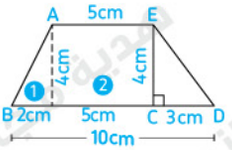
= 14 length units.

2. The surface area = 2 × [l × w + l × h + w × h]

= 2 × [4 × 3 + 4 × 2 + 3 × 2]

= 2 × [12 + 8 + 6] = 52 cm^2

3.



(a) The area of Δ ECD = $\frac{1}{2}$ × b × h = $\frac{1}{2}$ × 3 × 4

= 6 cm^2

(b) The area of figure (1) = $\frac{1}{2}$ × b × h = $\frac{1}{2}$ × 2 × 4

= 4 cm^2

The area of figure (2) = l × w = 5 × 4 = 20 cm^2

The area of trapezium ABCE = 4 + 20

= 24 cm^2

4. The solid is a square pyramid

The surface area = (4 × 4) + 4 ($\frac{1}{2}$ × 4 × 3)

= 16 + 24 = 40 square units.

Model 5

First group

1. (c) 2. (d)

Second group

1. (a) The area of Δ ABC = $\frac{1}{2}$ × b × h = $\frac{1}{2}$ × 6 × 8

= 24 cm^2

(b) AC = $\frac{A}{\frac{1}{2} \times h} = \frac{24}{\frac{1}{2} \times 4.8}$ = 10 cm

2. The distance = | – 1 | + | 5 | = 1 + 5 = 6 units.

3. h = $\frac{A}{b} = \frac{24}{5}$ = 4.8 cm

4. The volume = L × w × h = 10 × 3 × 5 = 150 cm^3