Rainbow International School
Curriculum/ British
License NO.4340140079
Ministry of Education
General Directorate of Education/
Riyadh

RAINBOW
International
School

وزارة التربية والتعليم
Ministry of Education

مدارس قوس قزح
العالمية
المنهج / بريطاني
ترخيص رقم . 4340140079
تحت اشراف وزارة التربية والتعليم

QUALIFI

Final Exam Revision Sheet

G7

> **Answer the following :**

1) What percent of 60 is 45?
   - **a.** 133.3%
   - **b.** 85%
   - **c.** 75%
   - **d.** 63.5%

2) Select the correct decimal for the percent. 85%
   - **a.** 85.00
   - **b.** 8.5
   - **c.** 0.85
   - **d.** 0.085

3) A new bike has a price of $250.00. 5% GST will be added to the price. What is the total cost of the bike including GST?
   - **a.** $256.50
   - **b.** $258.50
   - **c.** $260.50
   - **d.** $262.50

4) Your dinner bill at a restaurant is $23.33 and you leave a tip of $3.50. What percentage did you tip?

   a. 15%
   b. 17%
   c. 19%
   d. 21%

5) After inspecting 40 computers, defects were found in 5 of them. What percentage of computers had defects?

   a. 12.5%
   b. 15%
   c. 20%
   d. 35%

6) What is 8% written as a decimal?

....

7) Put the following in order of sizes, starting with the smallest

$$\frac{3}{4} \qquad 0.625 \qquad \frac{13}{16} \qquad \frac{17}{32} \qquad 50\%$$

....

8) $\dfrac{1}{4} - \dfrac{1}{8} =$

....

9) $4\dfrac{1}{2} + 3\dfrac{3}{4} =$

....

10) $6 \div \dfrac{2}{3} =$

....

11) $\dfrac{5}{16}$ of $48 =$

....

1) **Find the nth term for each of the following sequences**

a) 100, 125, 150, 175, ...

....

b) 1.5, 2, 2.5, 3, ...

....

c) -6, -13, -20, -27, ...

....

2) **The nth term for some sequences are given below. Find the Mirst 5 terms for each sequence.**

a) 5n + 3..

b) −7n + 20...

c) 3.5n + 4...

3) **Calculate the sum of the 100th term and 200th term of the sequence**

6, 15, 24, 33, ...

....

4) **Calculate the difference between the 30th term and 60th term of the sequence**   8, 3, -2, -7, ...

....

1) $7x - y = 7$

x	0	1	2	3	4
y					
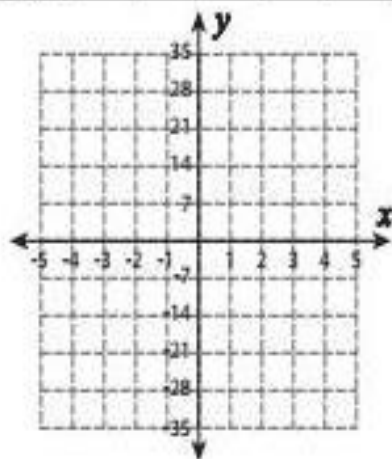
2) $2x - 8 = 4y$

x	-8	-6	-4	-2	0
y					
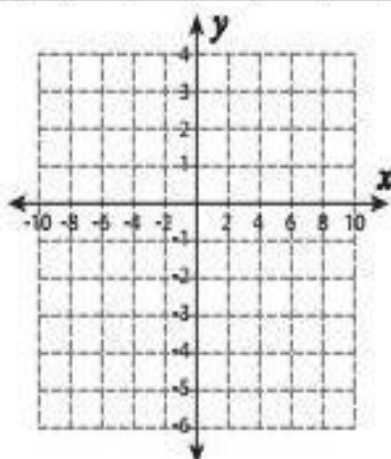
3) $3y = 12 - 2x$

x	-12	-6	0	6	12
y					
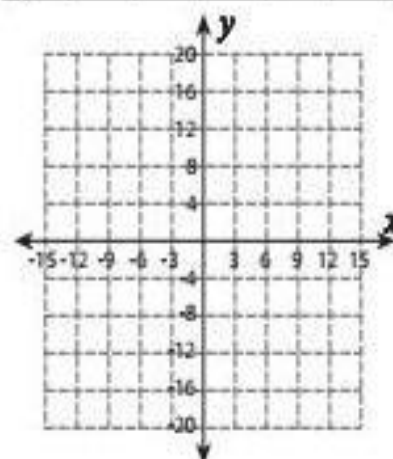
4) $15 = 10x + 5y$

x	-2	-1	0	2	3
y					
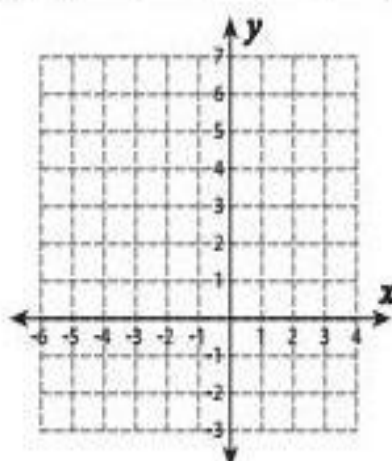
5) $4y = -x + 12$

x	-8	-4	0	4	8
y					
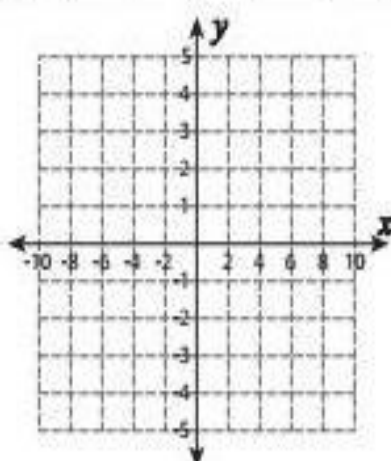
6) $x + 12 = 6y$

x	-12	-6	0	6	12
y					
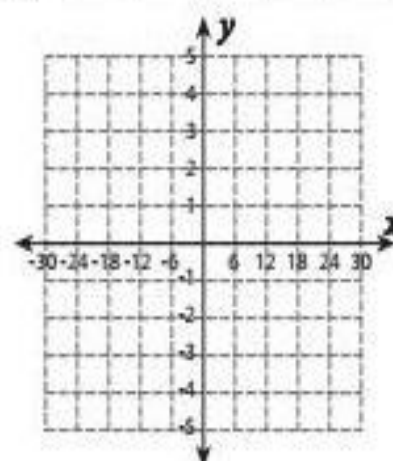
6) A straight line L is shown on the grid. **Work out the equation of the line**

....

....

....
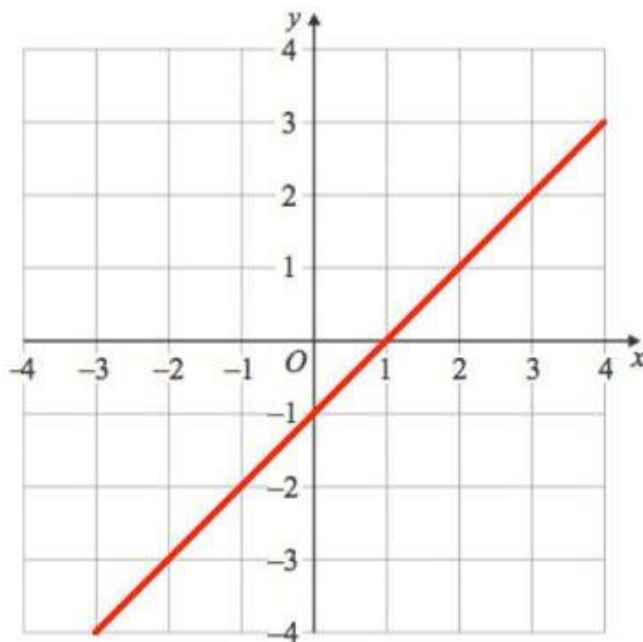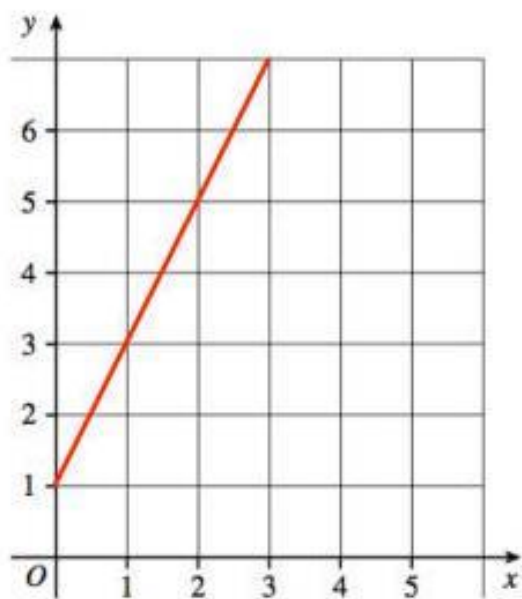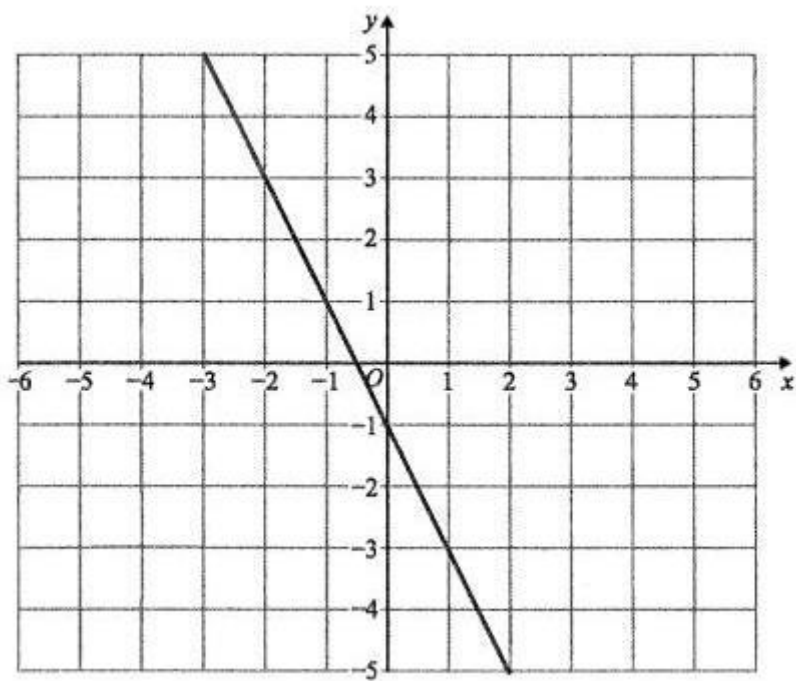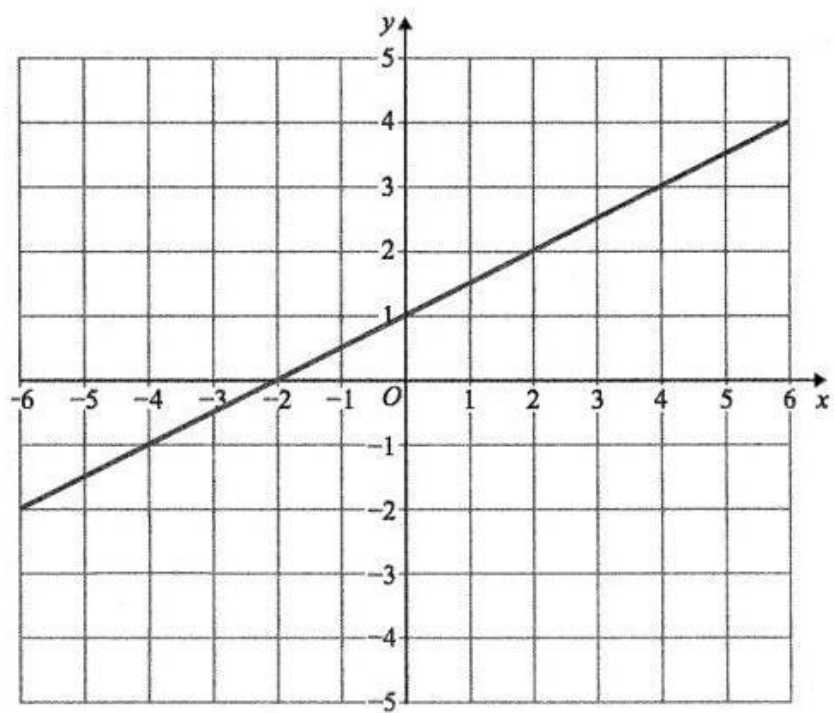
Find the value of each indicated angle.

1)

91°

x

$x =$ _____

2)

x

98°

$x =$ _____

3)

118°

x

$x =$ _____

4)

53°

x

$x =$ _____

5)

x

122°

$x =$ _____

6)

88°

x

$x =$ _____

7)

x

62°

$x =$ _____

8)

x

73°

$x =$ _____
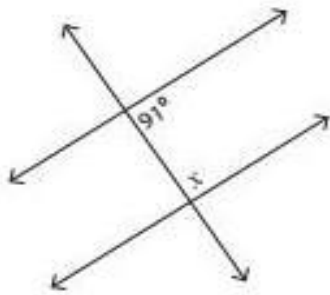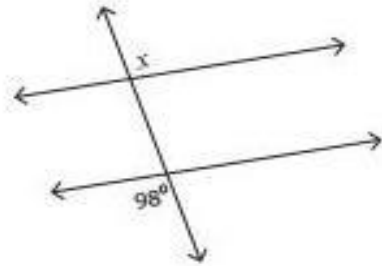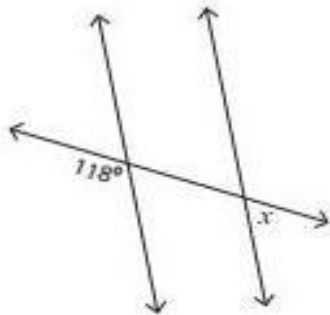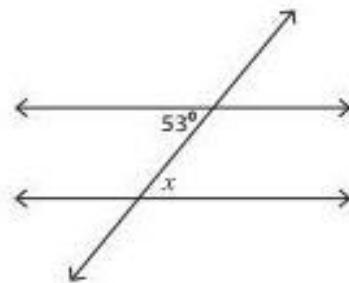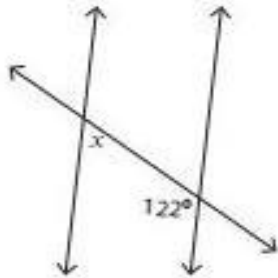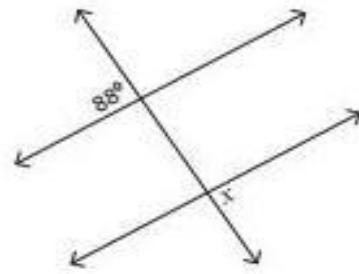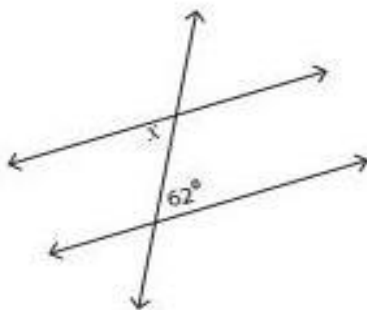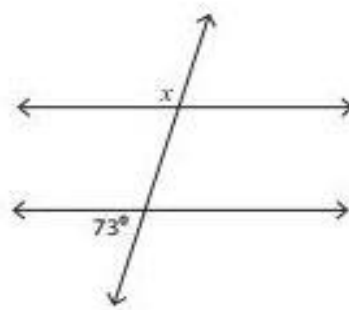
Find the size of each missing angle.

(a)

(b)

(c)

(d)

(e)

318°

(f)

(g)

(h)

(i)
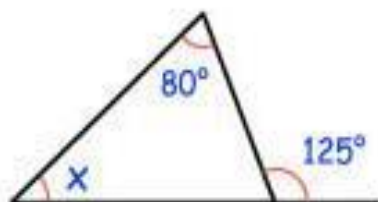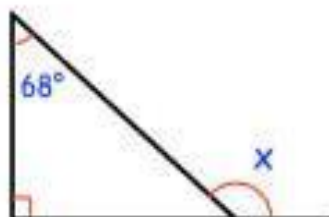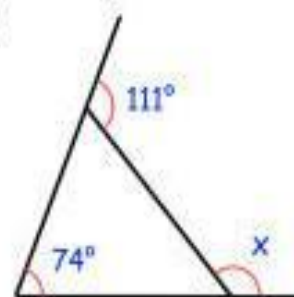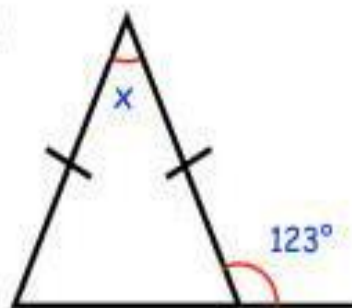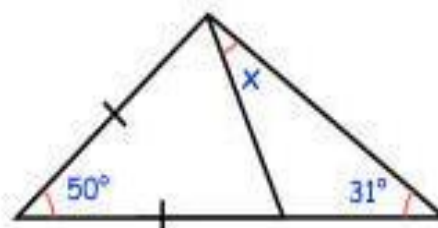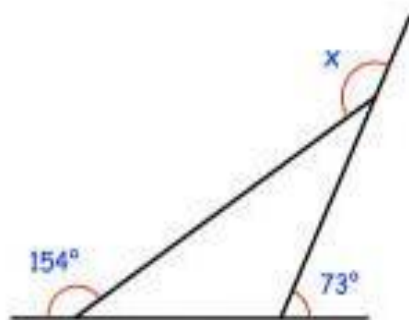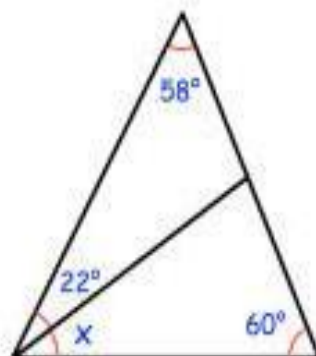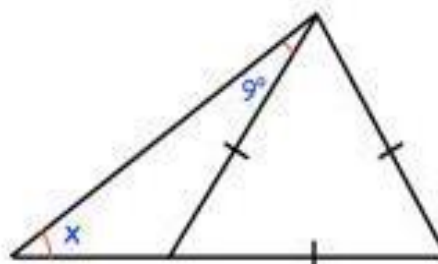
1 a.
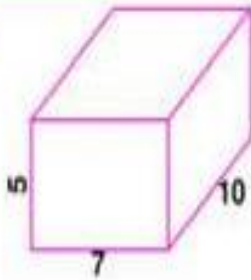
Find the surface area of this rectangular prism.
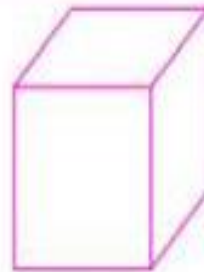
1 b.

Find the volume of this rectangular prism.

2 a.
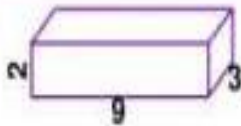
Find the volume of this rectangular prism.

2 b.

The surface area of this cube is 294 square units. What is its volume?

....
....
....
....
....
....
....

Area - Compound Shapes

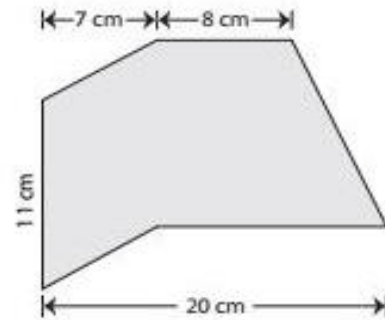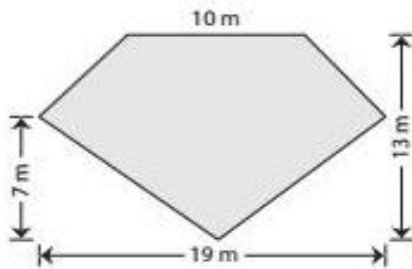Find the area of each figure. Round your answer to 2 decimal places if required. (Use π = 3.14)
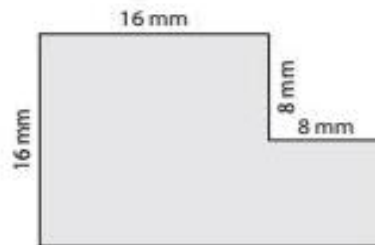
1)

12 mm

5 mm

Area = _____

2)

|←—7 cm—→|←—8 cm—→|

11 cm

20 cm

Area = _____

3)

10 m

7 m

13 m

19 m

Area = _____

4)

16 mm

8 mm

8 mm

16 mm

Area = _____

5)

9 cm

9 cm

14 cm

Area = _____

6)

4 m

6 m
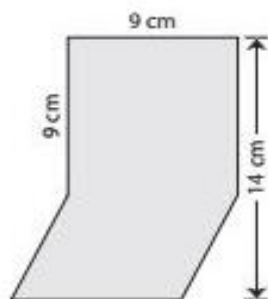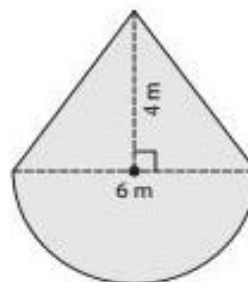
Area = _____

11)

If a = 1.5   b = 4   c = 6   d = 0.5   and e = −3
Find the value of each expression.

(a) 4(a + d)   (b) 5(c + b)   (c) 3(10 − e)   (d) abc

(e) e^3 (f) d^2 (g) $5b^2$ (h) $8e^2 + 3$

12)

If a = −2   b = 5   c = −6   d = 10   and e = 9
Find the value of each expression.

(a) a + 4   (b) b − 8   (c) c + e   (d) a − d

(e) d − c   (f) 2c   (g) 7a   (h) −7b

(i) 2d + 3c   (j) 6e + 3a   (k) 5a + 7   (l) 20 + 4a

(m) ac   (n) 40 − d   (o) 2e − a   (p) bd + a

13) <u>Answer the following</u> :

1) A boat can travel **200** kilometers on **40** liters of gasoline. How much gasoline will it need to go **355** kilometers?

2) **8** kg of apples cost **$64.** How much would **7** kg cost?

3) A triangle has sides whose lengths are in the ratio **4:5:6** .The shortest side is 6cm long. Work out the perimeter of the triangle.

4) Three children collect a total of **72** eggs .
   Deana collects **12** eggs
   Maria collects **p** eggs
   Josef collects three times as many eggs as Maria
   - Write an equation to show this information

   ....

   - Work out how many eggs Maria collect

   ....

Find x and y.

1) Scale factor of A to B is 1 : 2

x = _____ ; y = _____
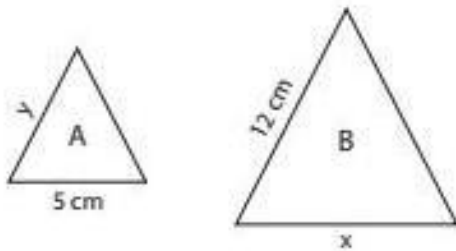
2) Scale factor of Q to P is 1 : 3

x = _____ ; y = _____
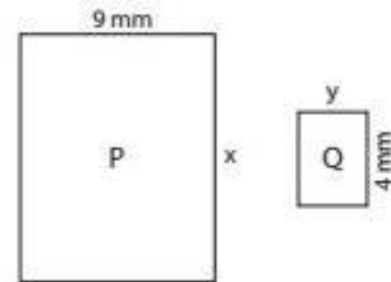
3) Scale factor of S to T is 4 : 1

x = _____ ; y = _____
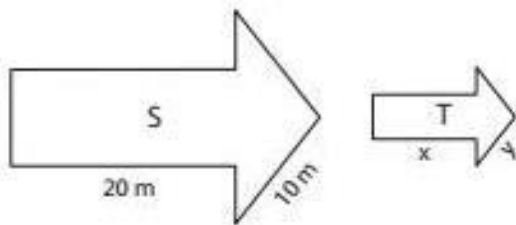
4) Scale factor of G to H is 1 : 7
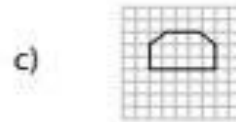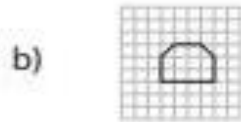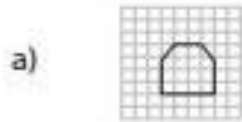

x = _____ ; y = _____
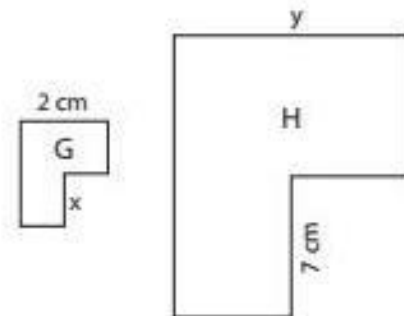
5) Scale factor of C to D is 5 : 1

x = _____ ; y = _____
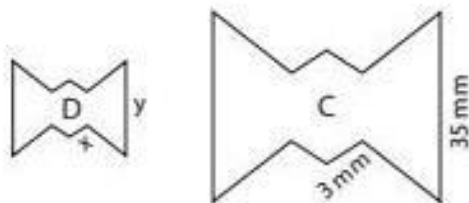
6) Scale factor of N to M is 8 : 1

x = _____ ; y = _____
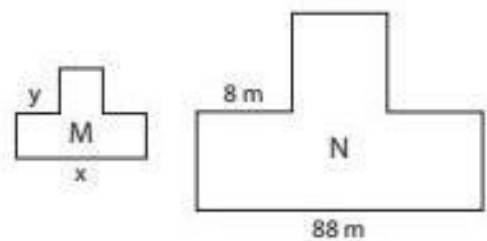
15)

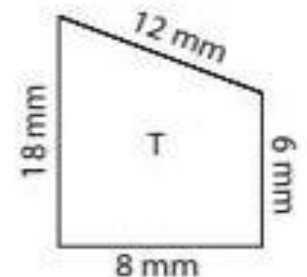Which figure is the scaled copy of figure G?
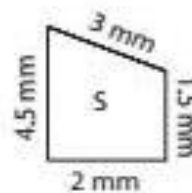

a)

b)

c)
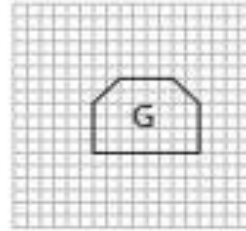
Which of the following figures is the scaled copy of the figure A?

a)

b)

c)
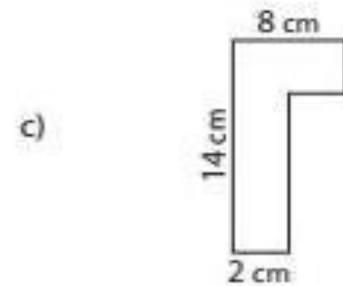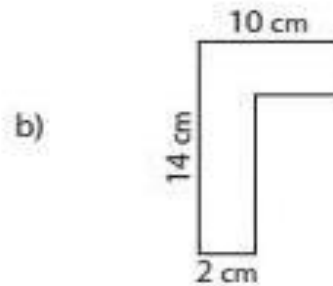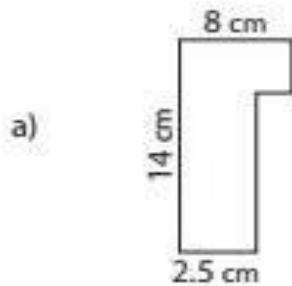
What happens to the new image if the scale factor of the original image to new image is 1 : 3?

a) Enlargement   b) Reduction   c) Remains same

Identify the scale factor of figure S to T.

a) 4 : 1   b) 1 : 4   c) 1 : 4.5

Please note:

The students will solve the revision paper with the teacher in the class. The answer key will be available after that.