TERM III HOLIDAY PACKAGE

MATHEMATICS **PRIMARY SIX**

TOPIC: **LENGTH MASS AND CAPACITY**

Conversion of metres to centimetres and vice versa (1m = 100cm)

Examples

1. Change 13 metres to centimetres

1m = 100cm

13m = 13x100cm

13m = 1300cm

2. Convert 140cm into metres

100cm = 1m

$140\text{cm} = \left(\frac{140}{100}\right)\text{m}$

140cm = 1.4m

Try these

1. Convert each of the following into centimetres.

a) 6m	c) 23m	e) $4\frac{1}{2}$m
b) 18m	d) 45m	

2. Express each of the following as metres.

a) 900cm	b) 430cm	e) 6.5cm

Conversion of kilograms to grams and vice versa (1kg = 1000g)

Try these

1. Convert each of the following into kilogrammes.

a) 12Kg	c) 150Kg	e) $2\frac{2}{5}$Kg
b) 5Kg	d) 0.125Kg	

2. Express each of the following as grammes.

a) 8000g	b) 500g	c) 78.5g

3. Find the number of 500g sachets of salt that can be obtained from 2kg of salt.

4. Bulungu bought four 750g tins of Vaseline. Express the total mass of Vaseline he bought in kilogrammes.

Conversion of litres to millilitres and vice versa (1 litre = 1000 millilitres)

Try these

1. Change into millilitres.

a) 12litres	c) 106litres	e) $5\frac{3}{4}$litres
b) 32litres	d) 0.25litres	

2. Convert to litres

a) 72000ml	b) 1500ml	e) 3850ml

3. Find the number of 500ml bottles of water that are contained in 2litres of water.

4. Kasuka drank six 550ml bottles of water. Find in litres the amount of water water he drank.

Perimeter

Perimeter of a rectangle = L+W+L+W or 2(L+W) or 2L+2W

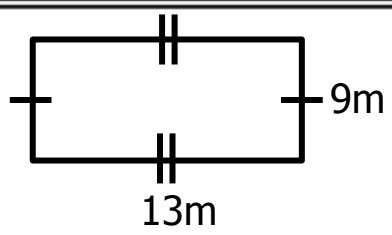
Perimeter of a square = s+s+s+s or 4s

Perimeter of a triangle = s+s+s

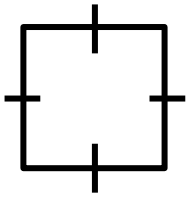
Try these

Work out the total distance round each of the following shapes.

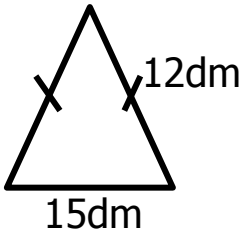
a)



b)



c)



Area

Note: Area is given in square units. (cm^2, m^2, dm^2, mm^2) etc.

Area of a rectangle = LxW

Area of a square = sxs

Area of a triangle = $\frac{1}{2}$xbxh

Area of a trapezium = $\frac{1}{2}$h(a+b)

Area of a parallelogram = bxh

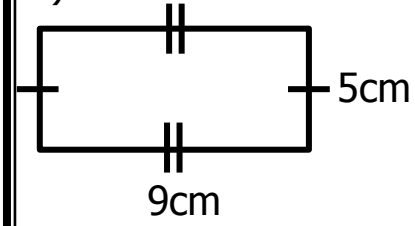
Area of a rhombus = $\frac{1}{2}xd_1xd_2$ or $\frac{1}{2}$xbxhx4

Area of a kite = $\frac{1}{2}xd_1xd_2$

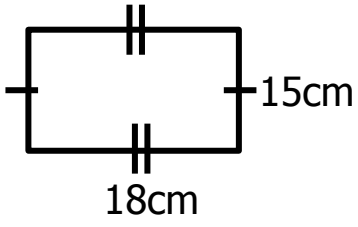
Try these

1. Calculate the area of each of the following figures.

a)

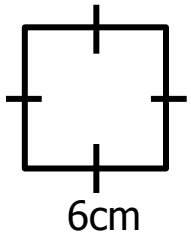


b)

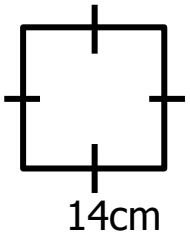


2. Find the area of the following squares.

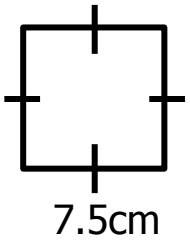
a)



b)

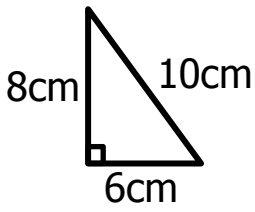


c)

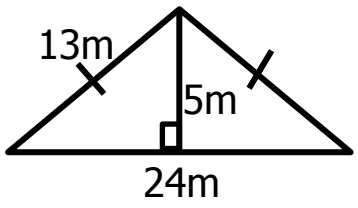


3. Work out the area of the each triangle.

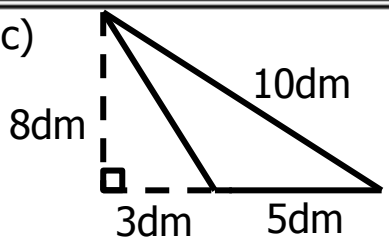
a)



b)

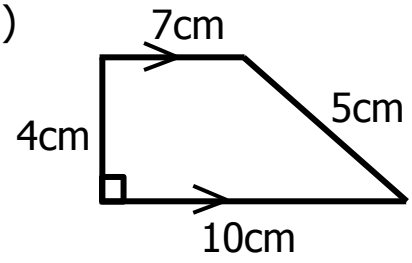


c)

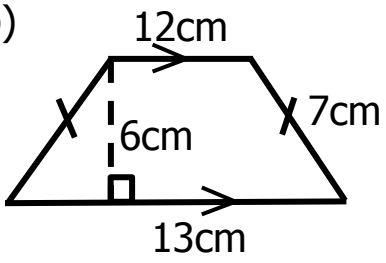


4. Calculate the area of each of each trapezium.

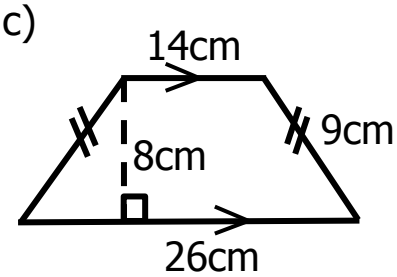
a)



b)

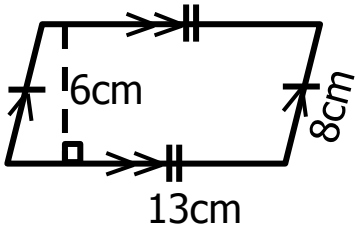


c)

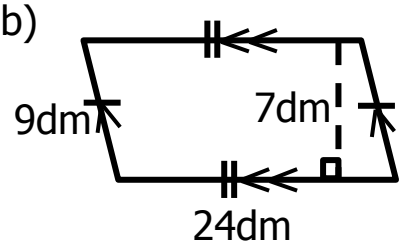


5. Work out the area of the figures below.

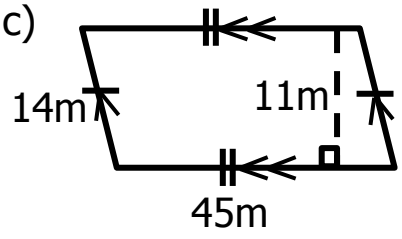
a)



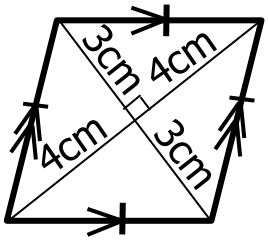
b)



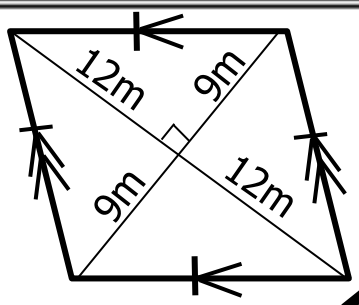
c)



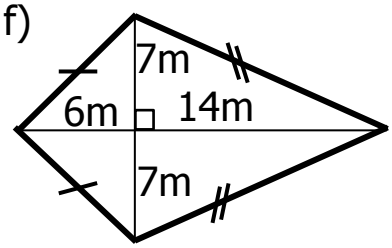
d)



e)



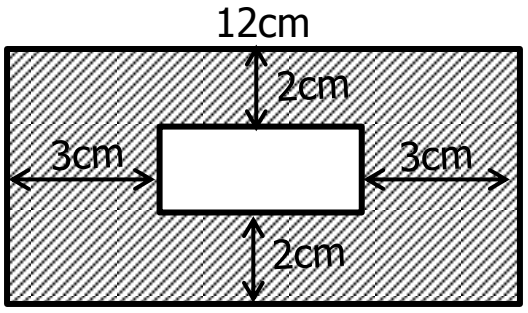
f)



Difference in area of different shapes

Example

Work out the area of the shaded part.



Solution

Length of the inner figure

12cm – (3cm + 3cm)

12cm – 6cm = 6cm

Length of the inner figure

9cm – (2cm + 2cm)

9cm – 4cm

5cm

Area of the inner figure

A = LxW

A = 6cm x 5cm

A = 30cm^2

Area of the outer figure

A = LxW

A = 12cm x 9cm

A = 108cm^2

Area of the shaded part

108cm^2

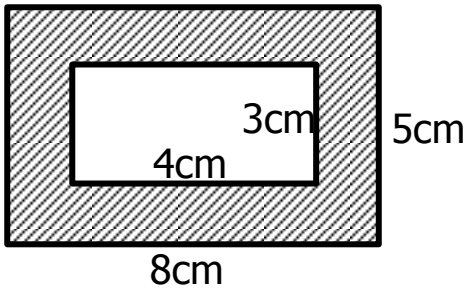
- 30cm^2

78cm^2

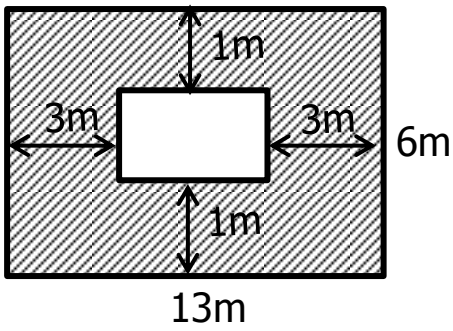
Try these

1. Calculate the area of the shaded part.

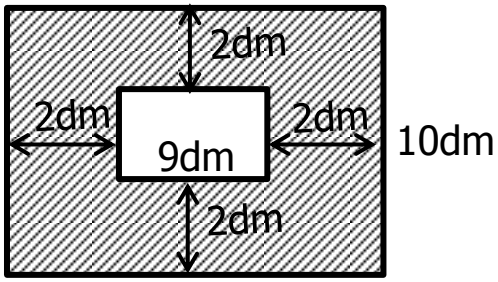
a)



b)

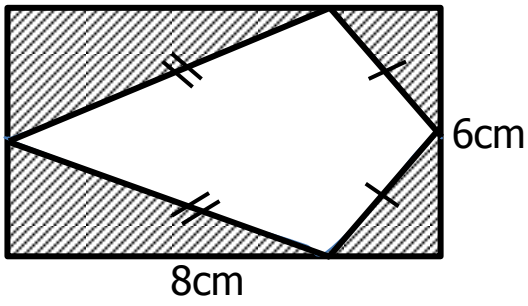


c)

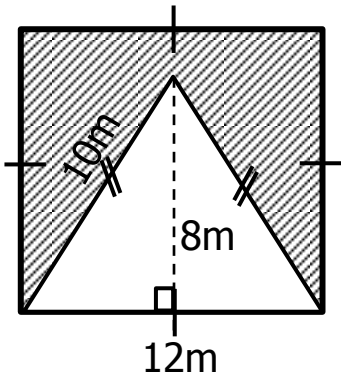


2. Find the area of the shaded part.

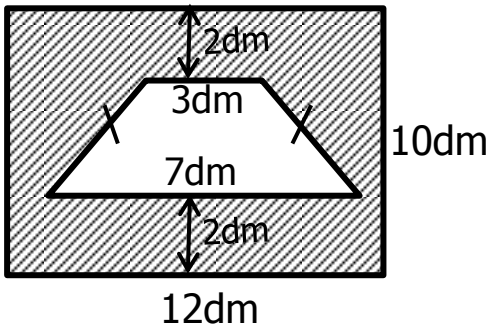
a)



b)



c)



Circumference of the circle

Formulas used

→Diameter = 2r or r + r

→Radius = $\frac{d}{2}$

→Circumference = πd or $2\pi r$

Examples

Find the circumference of a circle whose radius is 14cm (Use $\pi = \frac{22}{7}$)

$C = 2\pi r$

$C = 2\times\frac{22}{7}\times 14cm$

$C = 2\times\frac{22}{\cancel{7}_1}\times\cancel{14cm}^{2cm}$

$C = 2\times 22\times 2cm$

$C = 88cm$

Find the circumference of a circle whose diameter is 20m. (Use π =3.14)

$C = \pi d$

$C = 3.14\times 20m$

$C = \frac{314}{100}\times 20m$

$C = 62.8m$

Try these

1. Calculate the circumference of a circle whose radius is;

a) 7dm (Use $\pi = \frac{22}{7}$)	b) 21cm (Use $\pi = \frac{22}{7}$)	c) 35m (Use $\pi = \frac{22}{7}$)
d) 30cm (Use π =3.14)	e) 5cm (Use π =3.14)	f) 18dm (Use π =3.14)

Note:

→ The interior angle sum of a triangle is 180^o

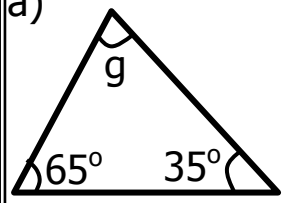
→ Base angles of an isosceles triangle are equal

→ Two interior angles of a triangle add up to one opposite exterior angle.

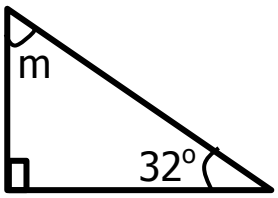
Try these

Find the value of the unknown.

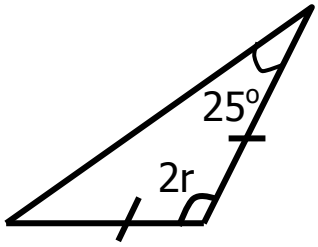
a)



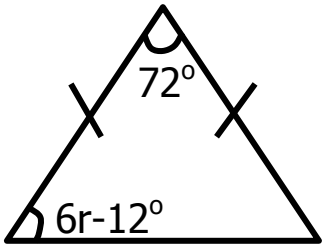
b)



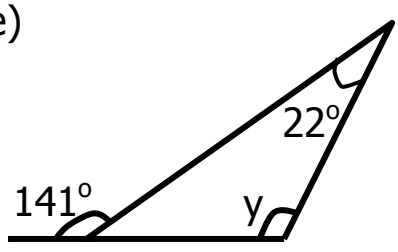
c)



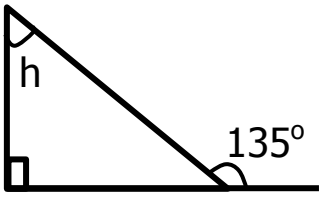
d)



e)



f)



PRAISE EDUCATION CONSULT
(PEC)

Tel: 0703 078 891 / 0785 600 165
WhatsApp: 0785 600 165

"Let's Educate the nation"

To our customers

Re: HOLIDAY PACKAGES

I begin by thanking all our customers for the continuous support as far as holiday packages and exams are concerned.
You all know that our holiday packages (in all sections) are detailed, user friendly and presentable, so they can fit any school(s) in urban and rural areas.

The price / cost has been maintained as sh. 2000 per customized copy however, there will be a slight increase in the cost for those who want full coloured covers. **NO PDF**

What makes our holiday packages special / unique?
- They are detailed (Relevant examples given for each exercise)
- They are too cheap
- Printed out on white papers with more than 40 pages
- Set, modulated, typeset and printed by teachers
- Attract font(s) was/were used
  (The work can be read by all pupils at all levels)

What is required to get them.
Send the details of the school including the logo to the conserned person (0785 600 165 - WhatsApp) or call 0785 600 165 / 0703 078 891

Those with in Kampala, find us at Kampala, Nasser Road, Mirembe arcade, ground floor RM G05
Those who can't come by yourselves, we shall make deliveries
Thanks

I remain Sseggayi Benjamin Kasuka