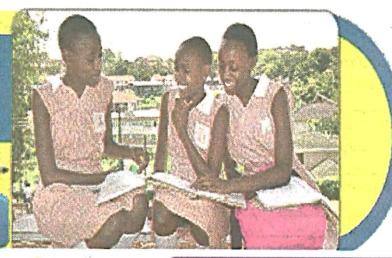


PASS PLE



P6 & P7

1. Calculate the average of: 5y, 9, 7, 3y

2. Work out: 16 + 9

3. An examination started at 8:30 pm and ended after 2 \(\frac{3}{4}\) hours. At what time did the examination end?

the branch have not all the season

Course to the before visiting that I

4. Find the sum of the interior angles of the polygon below.

Max Complete State



5. What is the smallest number divisible by either 9 or 8?

and the base of the same

J. 481 106 03



YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION

SECTION A

6. At Kivumbi's shoe shop, there are 200 pairs of shoes of different sizes. The probability of picking a pair of shoes size 9 is 1/4. How many pairs of shoes are not size 9 in this shop?

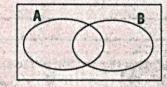
7. The median of five cobsecutive integers is -1. Find their range

na part s to fil

8. Show the lines offoldings symmetry the figure below can have.



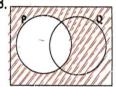
9. If A = {a, b, c, d, e, f} and
B = {a, e, i, o, u}. Represent the information above on the Venn diagram.



10. Expand 7894 using powers of ten.

ANSWERS TO ISSUE 38 (24TH JULY)

1. 6 - 2k = k 6 - 2k + 2k = k + 2k $\frac{6}{3} = \frac{3k}{3}$ k = 22. $1 - \frac{2}{4} = \frac{4}{4} - \frac{3}{4}$ $\frac{4 - 3}{4} = \frac{1}{4}$



4. int<sum = 1800(n-2) = 180⁰ (8 - 2) = 180⁰ (6) = 180⁰ × 6 = 108⁰ 5. CDXCIX = CD XC IX 400 90 9 = 499 6. 4.78 × 10-3 = 4.13 × ¹/₁₀₀₀ = 0.001178 7. y + 50⁰ + 50⁰ = 180⁰ y + 100⁰ = 180⁰

 $y + 100^{0} - 100^{0} = 180^{0}$ $\frac{-100^{0}}{80^{0}}$ $y + 0 = 80^{0}$

 $y + 0 = 80^{0}$ $y = 80^{0}$ Or $y + 50^0 = 130^0$ $y + 50^{\circ} - 50^{\circ} = 130^{\circ}$ - 50⁰ $y = 80^{\circ}$ 8. 1.44 = 144 PF | No PF | No 2 144 2 100 72. 2 2 36 2 2 18 9 3 1 100 $\sqrt{2} \times 2 \times 5 \times 5$

10. Right angled triagular prism
11. 1 km = 1000m
1m = 100cm
1km = 100,000cm
3.3km = 330,000cm
1 rev = C
C = πd
= 22 x 35
7 = 110cm
rev = D ÷ C
= 330,000cm
110cm
= 3000 revolutions
The wheel will make
3000 revolutions

= $\frac{330,000 \text{cm}}{110 \text{cm}}$ = 3000 revolutionsThe wheel will make 3000 revolutions12. (20m - 14m) = 6mDistance of the arc (curve) = $\frac{1}{4}$ and = $2 \times \frac{1}{4}$ arr = $\frac{1}{4} \times \frac{22}{7} \times 2 \times 14\text{m}$ = $\frac{1}{4} \times \frac{22}{7} \times 2 \times 2 \times 2$ m = $1 \times 22 \times 1$ m = 22mD = 22m + 20m + 14m + 6m= 62m13. Let the amount

Total sh.180,000

m + 1/2 m + 3/4 m = sh.

13. Let The amount
that Peter earns be m

Peter m

Musa 1/2 m

Mary 3/4 m

Total sh.180,000

m + 1/2 m + 3/4 m = sh.

180,000

4 x m + 1/2 x 4 m + 3/4

x 4 m = sh. 180,000

 $m + \frac{1}{2}m + \frac{3}{4}m = sh.$ $4 \times m + \frac{1}{2} \times 4m + \frac{3}{4}$ x 4m = sh. 180,000 (4m + 2m + 3m) = sh.180000 x 4 $9m = sh. 180000 \times 4$ $9m = sh. 180000 \times 4$ $m = sh. 20,000 \times 4$ m = sh. 80,000Peter earns sh. 80000 Musa earns sh. 40,000 Mary earns sh.60,000 $14. \, q + 65^0 + 80^0 =$ 180⁰ $g + 130^0 = 180^0$ $q + 130^{\circ} - 130^{\circ} =$ $180^{0} - 130^{0}$ $g = 50^{\circ}$

SECTION B

ens with automost Local

condition for a new box what

All the second sections to be setting

11. Mupadha scored the following marks in a number of exercises in class last term:

8, 10, 6, 9, 12, 5, 11, 13, 10 and 15. (a) What was her mean mark?

(b) Find her modal mark.

(c) What is the range in her marks?

23. The pie chart represents Okuya's expenditure in the months of June. He had 1,440,000/= altogether.

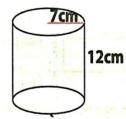


(a) How much money did he spend on his rent?

b) How much more does he spend on Food than savings?

c) What ratio of the total money does he save?

24. The diagram shows a cylinder of radius 7cm. Calculate;



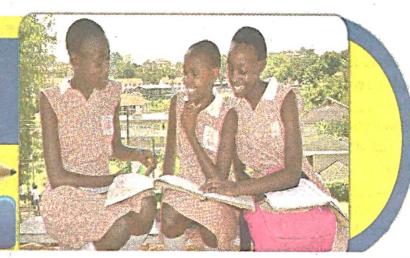
(a) the volume of the cylinder.

(b) the area of the shaded surface of the cylinder.



SOCIAL STUDIES

SCHOOL YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION



1.Work out: 880 ÷ 4

2. Write CMXX in words.

3. Find the supplement of 300 + y.

ENGLISHED TO THE THE PARTY OF

4. How many metres are in 7.5km?

5. After spending 20% of her salary, Anna remained with sh.150,000. How much is her salary?

THE PARTY OF THE PARTY OF THE PARTY OF THE

Michigan Committee Committ



SECTION A

6. If set P = {All triangular numbers less than 11), find n(P)

ed are to the companies with a filter

8. Find the length of the rope shown below:

The E. S. William Wall of the Co.

SELENT TO THE STREET STREET AT STR

A BUTTON TO THE PROPERTY OF TH

7. If a dice is tossed once what is the probability that a composite number will show up?

9. Using a ruler and a pair of compasses only, construct an angle of 450

10. Work out: (-7) x (-3).

ANSWERS TO ISSUE 40 (31st July)

8. $2\pi rh = 440 cm^2$

 $2x3^{1}/_{7}x7cm \times h = 40cm^{2}$

 $2x22x^{2}$ 7cm x h = 440cm²

 $2 \times 22 \times 1 \text{cm} \times \text{h} = 440 \text{cm}^2$

 $= 44 \text{cmh} = 44 \text{cm}^2$

44cmh = 44cm2

44cm 44cm

9. n(n + 1) = 30(30+1)

 $= 30 (31) = 30 \times 31$

Cost of each egg

Profit of one egg

sh.500 - sh.300 =

Profit on 10 eggs sh. 200 x 10 = sh. 2000

profit on the tray

sh15000 - sh9000

= 14m (2m + 2m)

width of the cloth

Area of the table

 $= 14m \times 12m$

Area of the cloth

Area not covered =

Area of the table

- Area of the table cloth

 $= 10m \times 8m = 80m^2$

= 12m - (2cm + 2cm)

= 14m - 4m

= 12m - 4cm

A=LxW

 $= 168 m^2$

 $A = L \times W$

= 10m

= 8m

= sh. 7000

 $30 \times 500 = \text{sh.}15000$

12. Length of the clot

P = S.P - C.P

sh.200

30 = sh. 300

sh. 9000

= 465

h = 10cm

1. 346 - 333 13 2, 12p - 2 (3p + 4) $=12p - 2 \times 3p + -2 \times 4$ = (12p - 6p) + 8= 6p + 8**3**. 6р - qр²

= 6p - qp2 3р $= 6p + qp^2$ 3p 3p

= 2 + 3p $6p + qp^2 = 3p(2+3p)$ 4. 9.56 x 1000

 $= 956 \times 1000$ 100 $= 956 \times 10$

1 x 1

= 9660

 $5. q + 60^0 = 180^0$ $g + 60^{\circ} - 60^{\circ} = 180^{\circ} - 60^{\circ}$ $q + 0 = 120^0$ $g = 120^0$ OR. two int<opp ext< $50^0 + 70^0 = q$ $120^0 = g g = 120^0$

2 4 = 16_{ten} $(2xp^1) + 4xp^0 = 16$ $2p + 4 \times 1 = 16$ 2p + 4 = 162p+4-4=16-4 2p + 0 = 12p = base six

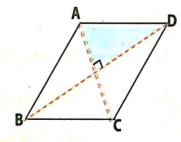
7. BP = SP + Loss = sh. 4500 + 10% of sh. 4500 =sh.4500+(10xsh4500

= sh. 4500 + sh. 450

= sh. 4950

 $= 168 m^2$ 100 - 80m² 88m² 280km

11. The figure ABCD is a rhombus where diagonal BD = 24cm and AC = 18cm



a) Find the area of the rhombus.

b)Calculate the perimeter of the figure.

SECTION B

12. While driving at 72km per hour, a motorist took 12/3 hours to move from town A to town B. She rested for 20 minutes before resuming her journey to town C 300km away at a speed of 100km per hour.

a) How far is town C from town C?

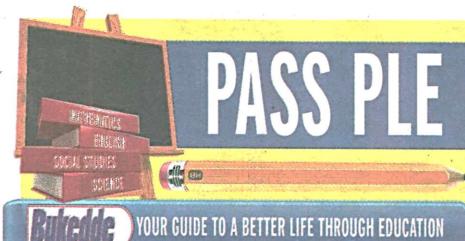
b) Work out the average speed for the whole journey.

13. A helicopter flew town A on a bearing of 1400 to town B 180km away. It then flew on a bearing of 2300 to town C 210km away.

a)Draw a sketch to show the helicopter's flight.

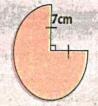
b)Using a scale of 1cm to represent 30km, draw an accurate diagram of the







- 1. The product of two numbers is 720, their LCM is 120. Find their GCF
- 2. Round off 35.98 to the nearest tenths.
- 3. At a party, 2.5 litres of juice were served and each person took 25 ml. How many visitors attended the party?
- 4. Find the total distance round the figure below



5. Solve 32 = 112 three



SECTION A

- 6. Find value of y if: 2 x 32 =1
- 8. Find the bearing of A from B in the figure below

7. In a village, there are $\frac{1}{4}$ more children than adults. Find the fraction of adults.

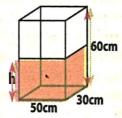
- 9. A mother had $\frac{3}{4}$ of a cake and gave 2/3 of it to her husband, what fraction of her cake remained?
- 10. A car tyre rolled 50 times to cover a distance of 110 m. calculate the diameter of the tyre in cm

11. A drum was $^2/_3$ full of petrol. When 300 litres were added, it became 5/6. how many litres does the drum hold when ½ full?

SECTION B

12. The exterior angle of a regular polygon is $^2/_3$ its interior angle. Work out its interior angle sum.

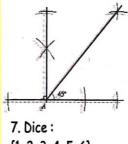
13. The cuboidal tank below holds some water as shown below.



- a) If there are 60 litres of water in the tank, find the value of h
- b) How much water is needed to fill the

ANSWERS TO ISSUE 41 (4th aug)

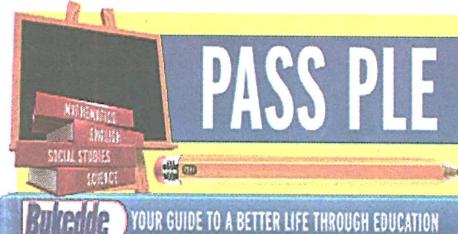
- 1.880 ÷ 4 = -880 = 220
- 2. CMXX = CM / XX
 - = 900 20 = 920
- 3. Let the complement of 30° + y be y $(y + y) + 30^0 = 90^0$ $2y + 30^0 = 90^0$ $2y + 30^0 - 30^0 = 90^0$
 - $2y = 60^{\circ}$
- $\frac{5}{5}$ = $\frac{5}{60}$ 4. 1km = 1000m
- 7.5km = 7.5×1000 m $= 75 \times 1000 \text{m}$
- = 75 x 100m 1 x 1
- = 7500m
- Before spending had 100% 100% - 20% = 80%
 - 80% repr sh. 150,000 1% will repr sh. 150000
- 100% will repr $= sh. 150000 \times 100$
- = sh. 750,000
- = sh. 187,500
- 6 P = $\{1, 3, 6, 10\}$
- n(P) = 48. $2\pi d$ or $^{1}/_{2}\pi d$ +
- $^{1}/_{2}\pi d$ = 2 x 22 x 35cm
- 1 1 = 1 x 22 x 5cm
- 1 = 1 x 22 x 5cm
- = 110cm $OR \pi d$
- = 22 x 35cm
- V
- = 22 x 5cm
- = 110cm 9. sketch

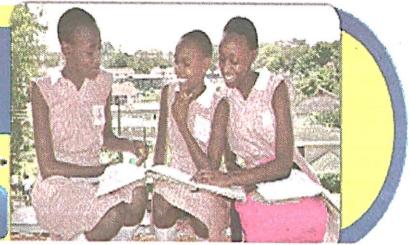


{1, 2, 3, 4, 5, 6} Composite number are

- 4 and 6 or {4,6} Prob - n(D.C) = 2 1n(T.C) 6 or 3 10. (-7) x (-3) = +21 11 a) A= 1/2 x d1 x d2 1 x 24cm x 18cm
- = 1 x 24cm x 9cm $= 216 cm^2$ AD is the hypotenuse
- Let AD be m = C $a^2 + b^2 = c^2$ $(9cm)^2 + (12cm)^2 = m^2$ $81\text{cm}^2 + 144\text{cm}^2 = \text{m}^2$
- $225cm^2 = m^2$ $\int 225 \text{cm}^2 = \int \text{m}^2$
- 15cm x 15cm = 1mx m 15cm = m
- m = 15cm Perimeter = $4 \times \text{side}$
- $= 4 \times 15 cm$ = 60cm
- 124 Distance = S x T $= 72 \text{kph} \times 1^2 /_3 \text{hrs}$
- $= 72 \text{km} \times 5$ 1hr
- $= 24 \text{km} \times 5$ = 120km
- Distance = 300km Total distance =
- 120km + 300km = 420km
- b) Time for moving . from B to C Time = D + S
- = 300km ÷ 100km/hr = 300km ÷ 100km
- $= 300 \text{km} \times 1 \text{hr}$
- $= 3 \times 1hr$
- = 3 hours Av Speed = D.
- 12/3hr+1/3hr+3hr = 420km
- 5 hours = 84km/hour
- = 84k.p.h 13 sketch

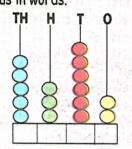






1. Work out: 231 X 3

2. Write the number shown on the abacus in words.



3. Simplify: 5(x-1) - 3(x-2) = 19

4. Solve: 2y + 3 = 1 (finite 12)

6. During a Mathematics quize, Muna got 88, Sanyu got 77 and Mary got 90. Find the mean of these marks.

5. Change 550ml to litres.

WATHEWATICS M. Senart Roychtya (Campas Parents' School (

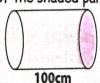
SECTION A

7. There were y students in S1 at Sir Luther Academy last year. Today there are 1800 students in the school. This is 20% reduction. Find the value of y.

8. Round off to the nearest hundredth:

734.896

9. Find the volume of the figure below if the area of the shaded part is 154cm².



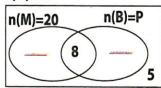
10. A Maths lesson started at 7:28am and took 58 minutes. At what time did it end?

11.In a group of 44 farmers,20 grow beans(B),p grow maize(M),8 grow both beans and maize and 5 grow neither of

(a) Complete the Venn diagram below using the above information.

 $n(\Sigma)=44$

the two crops.



(b) Find the value of p

(c) If a farmer is chosen at random, what is the chance the he grows beans only?

SECTION B

12 A trader got a loan of sh. 720,000 and paid back sh. 840,000 after 6 months. Calculate the percentage interest rate per year the trader was charged.

13. In a shop, the ruler costs sh.600 more than a book and a set costs twice a ruler. If the total cost of all the three items is sh.37,800. Find the cost of a ruler.

ANSWERS TO ISSUE 42 (7th aug)

1. $N^1 \times N^2 = LCM \times GCF$ Product = LCM x GCF $720 = 120 \times GCF$ Let GCF be m $720 = 120 \times m$ 720 = 120 m120 120 6 = m // m = 6

GCF = 6 2. T O Tth Hdth 3 5.9 8

1 3 6. 0 35.98 Ω 36.0 3. 1 litre = 1000ml $2.51 = 2.5 \times 1000$ ml = 2500 m

No of visitors = 2500 ml25ml = 100 visitors

 $4.3/4\pi d + r + r$ $D = (\frac{3}{4} \times \frac{22}{7} \times \frac{2}{7} \times \frac{2}{10} \times \frac{2}{1$ 14cm/1) + 7cm + 7cm =3x11x 1cm+7cm +7cm

= 33cm + 14cm = 47cm

 $5. y^1 y^0 = 3^1 3^1 3^0$ 3 2 1 1 2 3xy+2x1=1x3+1x3+2x1 = 3y + 2 = 3 + 3 + 2

3y + 2 = 83y + 2 - 2 = 8 - 2

3 y = 2 y = base two

 $6.2^{9} \times 3^{2} = 1$ 2 32 $2^{9} \times 2^{5} = 1$ $2^{y} \times 2^{5} = 2^{0}$ 2 4 y + 5 = 0

y+5-5=0-5 2 2 y + 0 = -5

y = -5 $7.90^{\circ} - 30^{\circ} = 0^{\circ} = 060^{\circ}$ $060^{0} + 180^{0} = 240^{0}$

8. Let the fraction of adult be n

Adult Children Total $n \left| n + \frac{1}{4} \right| 1$ $(n) + (n + \frac{1}{4}) = 1$ $2n + \frac{1}{4} = 1$ 4 x 2n + 1 x 4 = 1 x 4 8n + 1 = 48n+1-1=4-1 $\overline{8}$ n= $^3/_8$ $9.3 - 2 = 3x3 - 4 \times 2$ 4 3 12

=9-8=1

12

12

 $\frac{1}{12}$ of the cake remained 10. Rev = D/ 50rev = 110/cm C = 100 m50rev $\pi d = 110m$ 50 rev 1m = 100cm $22d = 110 \times 100cm$ 7 22d x7 =110 x100cm x7 22d = 110 x 100cm x 7 50 x 22₁ $d = 5 \times 10 \text{cm} \times 7$ $d = 10cm \times 7 = 70cm$ 11.5 - 2= (1x5)-(2x2) 6 3 =5-4=16 300 litres repr 1/6 If 1/6 repr 300 litres Then 6/, will repr 6 x 300L = 1800L 1/2 will hold 1 x 1800 | = 900 litres 12. Let the interior angle be k $ext < + int < = 180^{0}$ $^{2}/_{3}k + k = 180^{0}$ $2k \times 3 + k \times 3 = 180^{\circ} \times 3$ $2k + 3k = 540^{0}$ $5k = 540^{\circ}$ $k = 108^{\circ}$ 5 \5 $ext < 2 \times 108^{0}$ 3 No of sides = 360° = 5 sides $int < Sum = 180^{0} (n - 2)$

> $= 180^{\circ} (5 - 2)$ $= 180^{0} (3)$

 $= 180^{\circ} \times 3 = 540^{\circ}$

133. $C = V \div 1000 \text{ cm}^3$

60L = 50cmx30cmxh

 $60 \times 1000 \text{ cm}^3 = 50 \text{ cm} \times 1000 \text{ cm}^3$

30cm x h

60×1000cm³

50cm x 30cm

20 x 2cm = h

h = 40cm

 $50cm \times 30cm =$

50cm x 30cm x h

The height of 60cm

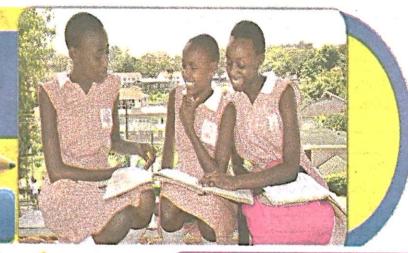
will repr 90 litres

1000cm³





SUBST YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION



1. Add: 5 5 5 +5 0 3

2. Solve: 9 + y = 12.

3. Simplify: +9 + 5

5. Using a pair of compasses, a ruler and a pencil, construct an angle of 1050.

6. Round off 7.95 to the nearest tenth

MATHEMATICS Mr. Bersard Mayebazya | Mr. Michael Musinguzi Kampala Parests' School | Buddo Junior School

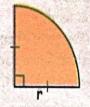
SECTION A

7. In the angle below, find the value of X.

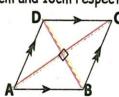
8. What is 12½ % of sh. 24,000?

9. Find the mean of 4, 6, 8 and 10.

10. The perimeter of the figure below is 50cm. Find the value of r. (pi=22/2)



11. The diagonals of a rhombus ABCD are 24cm and 10cm respectively.



(a) Calculate the area of the rhombus.

(b) Find the length AB.

(c) Calculate the total distance around the figure.

SECTION B

salaries.

12(a) Solve for x: 44_x = 103_{five}

(b) If today is Monday, what day of the week will it be after 35 days?

> (b) If the schools spends 40,000 shillings on books, what is the total collection?.

13. A school spends its school fee

collection as follows: $\frac{1}{4}$ on food, $\frac{1}{3}$ on

electricity, 1/6 on books and the rest on

(a) Find the fraction spent on salaries.

$0.4m = 0.4 \times 100$ cm

ANSWERS TO ISSUE 46 (21st aug)

1. 496 = 400 + 90 + 6 |

CD XC VI = CDXCVI 2. 3y = 24 13y = 2413 13 y = 8 3. 1 tonne = 1000kg 1000kg = 1 tonne $1 \text{ kg} = \frac{1}{1000} \text{ tonnes}$ 23450kg = 23450kg 1000kg = 23.45 tonnes

 4.3×604^{51} $1 = 3 \times 151$ = 453 5. 12pq + 18p

12pq + 18p6p = 2q + 36p(2q + 3)

6. Let the %age of girls be m girls = m boys = m + 40%m + m + 40% = 100%2m + 40% = 100% 2m + 40 - 40 = 100 - 40 12m = 60% 12 m = 30% $7.2y + 50^{0} + 0^{0} = 180^{0}$ $2y + 1400 = 180^{\circ}$ $2y + 140 - 140 = 180^{\circ}$

 $12y = 240^{\circ}$ $1^2 y = 20^0$ 8. 1kg = 1000g 13.5kg = 13.5×1000 g

= 13500g 250g = 54 sackets 9. 96

+94 190_{ten} B | No | Rem 8 190 8 23 6 2 7

190_{ten} = 276_{eight} 10. D = No of trees x space

 $= 44 \times 20m = 880m$ 11. Number of circular card $L \times W = 0.5 \text{m} \times 0.4 \text{m}$

D D 5cm 5cm 1m = 100cm $0.5m = 0.5 \times 100$ cm = 50cm

= 40cm 40cm x 50cm 5cm 15cm $= 8 \times 10$ = 80 circular cards

Area of 1 circular card $A = \pi r^2$ $= 3.14 \times \frac{5}{2} \text{cm} \times \frac{5}{2} \text{cm}$ 157 = 314 × 5cm × 5cm 20100 2 $= 157 \times 1$ cm $\times 5$ cm

20 1 $= 157 \times 1$ cm $\times 1$ cm

= 157 cm

8 Area of 80 circular cards 157cm² x 80

18 $= 157 \text{cm}^2 \times 10$ = 1570cm² Area of the rectangu-

lar manila A=LxW $= 50 \text{cm} \times 40 \text{cm}$ $= 2000 cm^2$ 2000cm² - 1570cm² $= 430 cm^2$

7-5=2 2 parts repr 8 sweets 1 part will repr 8/2 = 4 sweets

Wanji got; 4 x 4

12 4+3=7

= 16 sweets Deborah got; 3 x 4 = 12 sweets Shasha got; 5 x 4

= 20 sweets 13. $T_1 = \frac{D}{s}$ and

but $T_1 + T_2 = T.T$ D + D = T.T5 5 PF | No | No 30 50km/h 15 25 5 5 25 5 5

1 1 LCD = 150 $^{D}/_{30} + ^{D}/_{15} = 8$ Dx150+D x 150=8x150 30 150

 $D \times 5 + D \times 3 = 1200$ 5D + 3D = 12008D = 1200

D = 150km

Tel: +256 759 514414 / +256 788 076255



PASS PLE

YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION

- 1. Work out: 321 x 4
- 2. Solve: 0.25y = 6
- 3. Using a ruler and a pair of compasses only, construct an angle of 1050

4. In a class, there are 35 boys and 25girls. Find the ratio of girls to the whole class.

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5. Write a Mathematical statement shown on the number line.



SECTION A

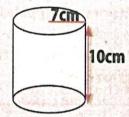
6. Find the next number in the sequence:

11, 15, 21, 29, 38,

7. A tank leaks at a rate of 200ml per minute. If it holds 240 litres of water when full, how long will it take to empty the tank?

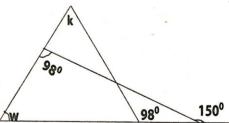
8. Solve: 3k x 3k = 81

9. Calculate the total surface area of the cylinder below: (Use pi as 22/7)



10.A meeting started at 11:15am.If it lasted for 2 ½ hours, at what time did it start?

11. Study the diagram below



Find the angles marked:

a) k

b) w

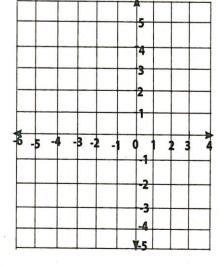
- (b) If the schools spends 40,000 shillings on books, what is the total

SECTION B

- 12.A school spends its school fee collection as follows: $\frac{1}{4}$ on food, 1/3 on electricity, 1/6 on books and the rest on salaries.
- (a) Find the fraction spent on salaries.
- collection?.

Plot the following coordinates on the grid below: A(0, 5),

B(-4, 0), C(0, -3) and (4, 0)



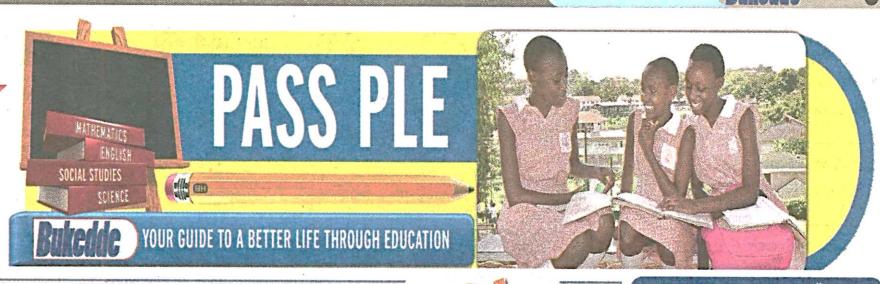
- (b) Join A to D, D to C, Cto B and B to A and name the figure formed.
- c) Find the area of the figure obtained.

ANSWERS TO ISSUE 48 (4TH SEPT)

- 1. 3.6 x 0.01 $= 36 \times 1 = 36$ 10 100 1000 = 0.036 2.5 - 3t = 135 - 5 - 3t = 15 - 5-3t = 8-3† = 8 -3 $t = -2^2/_3$ 3. $\frac{1}{2}\pi d + d = 36dm$ $1 \times 22 \times d + d = 36dm$ 2 7 11d + d = 36dm
- 7 1 $1 \times 11d + 7 \times d = 36dm$
- 7 x 11d + 7d=36dm x 7
- $11d + 7d = 36dm \times 7$ $18d = 36dm \times 7$ $18d = 36dm \times 7$ 18 $d = 2dm \times 7$ d = 14dm4. 2n - 4 = 14 2n-4+4=14+4 2n = 182n = 18
- No of sides = 360° $=40^{0}$ 5. 100% + 20% = 120% 120 repr sh. 840,000 1% will repr sh840000
- $= sh. 7000 \times 100$ = sh. 700,000
- 6. 12: 40am +00 00 12:40hours
- 7. 3/216cm³ 6 216 6 6
- $3\sqrt{216} \text{cm}^3 = 6 \text{cm}$ $6 \times 6 \times 6 = 216 \text{cm}^3$ S = 6cm Sum of edges $= 12 \times 6 \text{cm} = 72 \text{cm}$ 8. 1km = 1000m 1 hour = 3600sec $54km = 54 \times 1000m$ 1 hour 3600sec $= 3 \times 10 \text{m} = 3 \times 5 \text{m}$ 2 sec 1 sec = 15 m/sec
- 82 81 80 $5 1 2_{\text{eight}}$ = $(5 \times 8^2) + (1 \times 8^2)$ $+(2x8^{\circ})$
- 100. p = 4m + 3m + 5m= 12m

- 1m = 100cm $12m = 12 \times 100cm$
- = 1200cm No of poles = P
- = 1200cm 50cm = 24 poles11.a) 1m = 100cm L = 12m = 1200cmW = 4m = 400cm
- LxW b h $= 2 \left[\frac{12 \times 100 \text{cm}}{6 \text{cm}} \right] \times$
- $\left[\frac{4 \times 100 \text{cm}}{8 \text{cm}}\right]$ 8cm $= 2(1200 \text{cm} \times 400)$
- 8cm $= 2(200) \times 50$ = 20,000 pavers
- b) 1 paver costs sh. 5,000 20000 pavers will cost
- = sh. 5000 x 20000 = 100,000,000 12. 24 - 2 = 22
- $22 \times 5 = 110$ $= 110 - (2 \times 2)$ = 110 - 4
- = 106 she will score 106 marks
- b) Let the correct ones be m
- Then the wrong ones will be (24 - m) $5 \times m = 5m$ (corrects
- marks 2(24 - m)(wrong mark)
- 5m 2(24 m) = 925m-2x24 - 2x m = 92
- 5m 48 + 2m = 925m + 2m - 48 = 92
- 7m 48 = 92
- 7m-48+48=92 + 48 7m = 140
- X 7 m = 20
- wrong ones = 24 - 20 = 4
- 13. If 3rd number is (y+2)
- The the 2nd number is y
- And the smallest number is (y - 2)(y-2) + (y) + (y+2) = 39(y+y+y) + 2 - 2 = 39
- 3y + 0 = 393y = 3913 3 y = 13
- y 2 = 13 + 2 = 11y = 13
 - y+2 = 13 + 2 = 15The numbers are
 - 11, 13 and 15





1. Add 9.9 + 1.1

2. Find the 12th triangular number

3. A baby slept at 17 00 hours and woke up at 2.30 am. For how long did the baby sleep?

4. What angle is an $^{1}/_{8}$ of its supplement?

5. The bearing of A from B is 120°. What is the bearing of B from A?

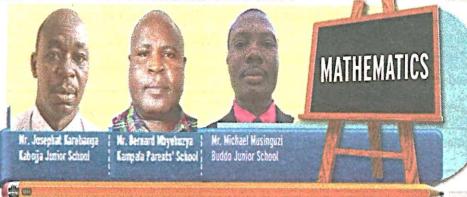
11. Square tiles of side 10 cm are to be

sh.40,000. Find the cost of all the tiles

laid on a rectangular floor measuring

8m by 5m. a box of 20 tiles costs

needed to cover the floor.



SECTION A

6. A tyre of a bus made 2000 revolutions cover a distance 4.4 km. find the diameter of the tyre

7. Find the size of angle y



8. Change 54km/h to m/sec

9. Work out 1- 4 ---- mode 5

Monday of green divided womening of

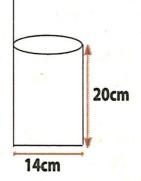
Christian Christian Company Control Control

10. Use a protractor to draw an angle 75^0 in the space below.

SECTION B

12. In a market, a pawpaw costs sh 800 more than a mango and a mango costs $^2/_3$ the cost of a tangerine. Find the cost of a tangerine if the total cost is sh 4300

13. One weekend , Kato sold 61.6 litres of milk using the container below. How many such containers of milk did he sell



ANSWERS TO ISSUE 49 (8^H SEPT)

1. 321 $\frac{x}{1284}$ 2. 0.25y = 6 $\frac{25y}{100} = 6$ $100 \times 25y = 6 \times 100$ $100 \times 25y = 6 \times 100$ $100 \times 25y = 6 \times 100$



4. Girls are 25

Total
= 36 boys+25girls
= 60 pupils
= $\frac{25 \div 5}{60 \div 5} = \frac{5}{12}$ = 5: 12
6. 11,15, 21,29,38,48

+4 +6 +8 +9 +10

Add consecutive composite number

posite number 7. 1 litre = 1000ml 240liters = 240 x 1000 = 240,000ml 200ml leak in 1 minute. 1ml will leak in $^1/_{200}$ minutes 240,000ml will leak in 1 x 240000 200₁₂₀₀ 1 = 2400 minutes = 1,200 minutes Or 1200 160 = 20 hours $8.3^k \times 3^k = 81$ $3^k \times 3^k = 34$ $3^k \div 3 \times 3^k \div 3 = 3^4 \div 3$ k + k = 412k = 4212 12 k=2

9. S.A = $2\pi r^2 + 2\pi rh$

 $=(2 \times 22 \times 7^{1} \times 7 \text{cm}) +$

 $(2 \times 22 \times 7 \times 10 \text{cm})$

=2 x 22 x 1cm x 7cm +

(2 x 22 x 7cm x 10cm

 $(2 \times 22 \times 7 \text{cm}^2) + (2 \times 21 \times 10^{-2})$ $22 \times 10 \text{cm}^2$ $= 308 \text{cm}^2 + 449 \text{cm}^2$ $= 748 \text{cm}^2$ 10. HR Min 11: 15am + 2: 15 13:30hour The meeting ended at 13 30 hours or 1:30pm 1330hour -1200 hours 1:39pm 11. $150^{\circ} - 98^{\circ} = 42^{\circ}$ $180^{\circ} - 980 = 820$ $k + 42^{0} + 82^{0} = 180^{0}$ $k + 124^0 = 180^0$ $k + 124^{\circ} - 124^{\circ} = 180^{\circ}$ - 124⁰) w + k + 82⁰ = 180⁰ $w + 56^{\circ} + 82^{\circ} = 180^{\circ}$ $w + 138^0 = 180^0$ $w + 138^{\circ} - 138^{\circ} = 180^{\circ}$ 0 w + k = 98^{0} $w + 56^0 = 98^0$ $w + 56^{\circ} - 56^{\circ} = 98^{\circ}$ $w = 42^{\circ}$ 12.1 + 1 + 1 4 3 6 =(3x1) + (4x1) + (2x1)12 = 3 + 4 + 2 = 9 = 3 12 12 4 1 - 3 = 4 - 34 4 4 $=1 \times 4 - 1 \times 3$ =4-3 = 1 4 4 b) If $\frac{1}{6}$ repr sh. 40,000 Then 6/1 will repr 6 x sh. 40,000 = sh. 240,000 The total collection is sh. 240,000 13. b) $A = 1 \times d_1 \times d_2$ 1 x 8cm x 8cm

Modified by: Secretary Hilton Junior School – Mukono

12

=1 x 4cm x 8cm = 32cm²





YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION

1. Work out: 35 ÷ 7

2. Solve: 2y - 3 = 21

3. Write "One hundred six thousand, fourteen" in figures.

4. Simplify: 4 - 9

5. If Z = {all triangular numbers less than 10}, how many subsets can you obtain from set Z?

i nkadrigada Risa dayinda sa

to a distribute contract to be sent the set of the



SECTION A

6. Simplify: 10 - 7

7. If 1USD costs UG Sh.3600 1KSh.costs UG Sh.36 Find the cost of radio in US dollar if it costs KSh.14,000.

8. Work out: 111_{two} x 11_{two}

9. An exam started at 11:25 a.m. and ended at 2:45 p.m. How long did the examination take?

10. The interior angle of a regular polygon is 20% greater than the exterior angle. How many sides does the polygon have?

SECTION B

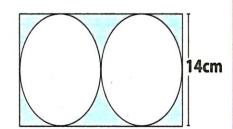
11. Using a pair of compasses, a ruler and a pencil only, construct a parallelogram ABCD where AB= 6cm and angle ABC= 1200 and AD= 4cm

12.a) Find the number whose expanded

 $(8 \times 10^3) + (6 \times 10^1) + (5 \times 10^0)$

b) How many fives are in the sum of the value of 7 and the value of 1 in 87,103?

13. Study the figure below and find the area of the shaded part.



ANSWERS TO ISSUE 50 (11" SEPT)

1. 99 +11 110 2. n (n + 1) = 12(12+1)

 $= 12(13) = 12 \times 13$

= 78

3. Hours left to midnight 2400 -1700

0700 = 7 hours7: 0 Ohours

+ 2:30am 9:30 = 9 hours and 30 minutes OR 9¹/_ahour

4. Let that angle be m $1/8 \text{ of m+m} = 180^{\circ}$ $(1/8 \times m) + m = 180^{0}$

 $\underline{m} + m = 180^{\circ}$ $8x m + 8x m = 180^{0}x 8$

 $m + 8m = 180^{\circ} \times 8$ $9m = 180^{\circ} \times 8$

 $m = 20 \times 8$ $m = 160^{\circ}$

That angle is 1600 5. 120⁰ + 180⁰

300⁰ The bearing of A

from B is 3000 6. Rev = D C, = D

1km = 2000 = 4.4 km

2000=4.4 x 100000cm $C = \pi d$

 $22d = 4.4 \times 100000$ cm 7x 22d = 4.4x 100 x 7

 $22d = 4.4 \times 100 \times 7$ $22d = 440 \times 7$ 22 d = 140



 $p + 280^0 = 360^0$ $p + 280^{\circ} - 280^{\circ} =$ $360^{\circ} - 280^{\circ}$ $p = 80^{\circ}$ $y + 60^{\circ} = p$ $y + 60^{\circ} = 80^{\circ}$ $y + 60^{\circ} - 60^{\circ} = 80^{\circ} - 60^{\circ}$ $y = 20^0$ $OR 60^{0} + M = 180^{0}$ $60^{\circ} - 60^{\circ} + M = 180^{\circ}$ - 60⁰

 $n + 120^0 = 280^0$ $n + 120^{\circ} - 120^{\circ} = 280^{\circ}$ - 120⁰

 $n = 160^{\circ}$ $y + 160^0 = 180^0$

 $y + 160^{\circ} - 160^{\circ} = 180^{\circ}$ <u>- 160</u>0

8. 1km = 1000m 1 hour = 3600Sec S = 54km218 1 hour

 $= 54 \times 1000 \text{m}$ 3600Sec= 3 x 5m 1 sec = 15m/Sec

9.1-4=..... mod 5 (5+1)-4=.... mod 5 6 - 4 = 2 mod 5

10 sketch

Area of the rectangular floor A=LXW $= 8m \times 5m = 40m^2$

Area of the square tile $A = S \times S$ $10cm \times 10cm = 100cm^2$ 1m = 100cm $1m^2 = 10000cm^2$ $40m^2 = 40 \times 10000 \text{cm}^2$

 $= 400,000 \text{cm}^2$ No of tiles = 400000cm²

100cm²= 4000 tiles No of boxes of tiles = 4000 tiles

20 = 200 boxes Cost of tiles $= sh.40,000 \times 200$ = sh. 800,000 12. Let the cost of

tangerines be m Tangerine m 2/3m mango 2/3m + 800 Pawpaw

Total sh. 4,300 m+ 2/3m +2/3m+ sh.800 = sh. 4,300 m+2m+2m+800 = sh.43003xm+2m+2m+sh2400

= sh.43003m+4m+sh.2400 = sh.4300 x 3 7m + sh.2400 = sh.129007m = sh.12900-sh.2400 7m = sh.10500

m = sh.150013. He sold 20 such containers of milk

that weekend

 $m = 120^{\circ}$



ISSUE

PASS PLE

YOUR GUIDE TO A BETTER LIFE THROUGH EDUCATION

Register your school to participate in the PASS PLE QUIZ at **Kitante Primary** School on 3rd October 2025



1. Evaluate 3 + 5 x 3

2. Solve 4y - y(4-2) = 10

3. The L C M of two numbers is 72, their G C F is 12, if one of the numbers is 36, find the second number.

he was traced a tobard down in

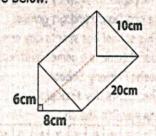
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hered to una partie the name

The Warrant to established

" with the most and local to held Call.

4. Calculate the volume of the solid figure below.





SECTION A

5. Find the complement of y -200

20 The cost modes to pregune come

6. Express 25 m/s as Km/h

7. The area of a semi circle is 77 dm2. Work out its diameter.

everyour representable between an order

STATE ON HOT INSPIRED SHIPS INVESTIG

to make the control of the control o

all the relation of a series that you have do to

Abile I would be arrection from both inside which is

Visit traumes a shrink for sit const

8. Without extending the line, construct a right angle at point R

For selection, 15-31, holiose the ar-

by I have start a place in contract

mino consume Light afficient many

structions in the products

9. After eating 20% of his sugar cane,

Peter was left with 320 gm. How heavy

a Kuti 23 Ki Cont. I in the animal orders for the

10. Round off 349.67 to the nearest

was the whole sugar cane?

whole number

11. A tin was $^2/_3$ full of sugar. When $\frac{1}{4}$ of the sugar in the tin was used, 240 gms remained. How much sugar was used?

12. Without using a protractor, produce a quadrilateral ABCD where AB=BC=CD=AD, AC=6 cm and BD =8 cm

13. The pie chart below shows Petero's monthly expenditure and savings.



a) Find the value of x

b) If he spends sh.100, 000 more on food than rent, how much money does he save?

ANSWERS TO ISSUE 51 (15" SEPT

1. 35 ÷ 7 = 7 35 -0 🔻 35 -3 5

 $35 \div 7 = 5$ 2. 2y - 3 = 21 2y - 3 + 3 = 21 + 32y = 24 2 2

y = 123 106000 14 106014

 $5 Z = \{1, 3, 6\}$ $nC = 2^n$

 $= 2^3$ =2x2x2 = 8

6 -10 - -7 = -10 + 7= -3

7. Ug sh. 36 buy 1 K sh 1 K sh cost Ug sh. 36 Ksh. 14000 will cost Ug sh. 36 x 14000 = Ug sh. 504,000 Ugsh. 3600 buys 1 USD Ug sh.1 will buy 1 USD 3600 Ug sh. 504,000 will

buy 1 x 504,000)USD

3600 = USD 140 / 140 USD

8. 111_{two} x 1 1 two 111 +111 10101

🕦 Hours lett to midday 12:00 -11:25

HR MIN 80min 45 - 60min 35 20min 20 3 hours and 20 mins

3 5 minutes

OR 3¹/₃ hours 100 Let the exterior

angle be m

Ext< Int< 100%

m+20% 100%

2m+20% - 20% =100% 2m = 80%2m = 80% m = 40%No of sides = 360⁰ 40% of 180⁰ $= 360^{\circ}$ 40×180^{0} 100 = 3600 720 = 5 sides The polygon has 5 sides



11 Sketch

 $12.0)8 \times 10^3 = 8000$ $6 \times 10^1 = 60$ $5 \times 10^0 = + 5$

TH THHTO 7 1 0 3 1 x 100=100

7 x 1000=7000 7000 + 100 = 7100 = 7100 5 = 1420

There are 1420 fives in sum of the value of 7 and the value of 1 in the numeral 87103 13. Area of the rectangle

A=LXW $= 2(14cm) \times 14cm$ =28cm x 14cm $= 392 cm^2$

Area of the 2 circles $A = 2(\pi r^2)$ =2x 22 x 14cm x 14cm 7 2

= 2 x 22 x 7cm x 7cm

= 2 x 22 x 1cm x 7cm = 308cm²

Area of the shaded part 3 9 2cm² - 308cm 8 4cm²

m + m + 20% = 100%