- 1. 56-24=32
- 2.

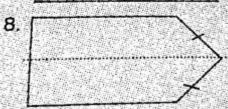
Place Value	Thousands	Hundredths
Value	3000	0.04

3. $x = 45 + (\frac{2}{3} \times 45)$

$$x = 45 + 30$$
$$x = 75$$

4. 2πr = C 2 x <u>22r</u> = 88m 7 7 x 44r = 88 x 7

- 5. The missing number = 3⁵ ÷ 3³ = 3⁵⁻³ = 3²
- 6. 50 ÷ 1/2 = 50 x 2 = 100 kg
- 7. Note: 41957 = 41000 + 975 975 is nearer to 1000 than 0 So, 41000 + 1000 = 42000 Thus, 41957 ≈ 42000



I line of folding symmetry

Capacity of the biggest container = GCF

2	60	72
2	30	36
3	15	18
all t	5	6

- 10. 00 43 hours = 12:43 a.m.
- 11. $\frac{45}{75} \times 100\%$ = 60%
- 12. No. of builders = 8 x 10 5 = 16 builders
- 13. 1 min. = 60 seconds Speed in m/s = 600m 60s = 10m/s
- 14. 2(m + 7)
- 15. 0.1, 0.4, 0.7, 1.0, <u>1.3</u> 0.1 + 0.3 = 0.4 0.4 + 0.3 = 0.7 0.7 + 0.3 = 1.0 1.0 + 0.3 = 1.3
- 16. The bearing of the school from the teacher's home = 180° + 075° = 255°
- Note: 255° = 360° 105°
 To construct an angle of 255°.
 - Construct ar angle of 105°
 - The adjacent explementary angle becomes 255°
- 18. 1 kg = 1000 grammes 3.27 kg = 3.27kg = 3.27 x 1000g = 3270g
- 19. = -8 (-5) = -8 + 5 = -3
- 20. 5m-n = (5 x 3.2)-7 = 16-7 = 9

- 21. Total area for perimeter = 2(5+2) = 2(7) = 14 Length= $\frac{5}{14}$ x 280m = 100m Width = $\frac{2}{14}$ x 280m = 40m Area = L X W = 100m x 40m = 4000m²
- 22a) Let son be x years old.
 Father be (x + 20) years old.
 In 10 years time:
 Son will be: 2(x + 10) years old.
 Father will be:
 (x + 20) + 10 years old
 2(x + 10) = (x + 20 + 10)
 2x + 20 = x + 30
 2x + 20 20 = x + 30 20
 2x = x + 10
 2x x = x x + 10
 x = 10
 The son is 10 years old.
 - b) Father will be: = (x + 20) + 10 years = (10 + 20) + 10 years = 40 years

 $k = 49^{\circ}$

Interior angle sum = $180^{\circ}(n-2)$ = $180^{\circ}(5-2)$ = $180^{\circ} \times 3$ = 540° (k+15°)+(2k+13°)+(3k+12°) +(4k+10°)+80°=540° $10k + 50^{\circ} = 540^{\circ}$ $10k + 50^{\circ} - 50^{\circ} = 540^{\circ} - 50^{\circ}$ $\frac{10k}{10} = \frac{490^{\circ}}{10}$

31					
		3	4	٠	
4	c	5	۰	٠	'n

Base, b	Height, h	Area, A	
5cm	12cm	30cm²	
6m	8m	24m ²	
7cm	6cm	21cm ²	

A = 1/2bh

= 5cm x 12cm

A = 30cm²

$$b = 2 \times A$$

b=2x24

b = 6m

h = 2xA

b

 $h = 2 \times 21$

b = 6cm

- R is a subset of Set P. 25a).
- $Q' = \{2, 4, 6, 8, 10\}$ b). $R = \{3, 4, 6, 8, 9, 10\}$

 $(0' \boxtimes P') = \{4, 6, 8, 102, 3\}$

Surface area 26.

= 2(1xw) + 2(1xh) + 2(wxh)

148=2(6 x w)+2(6x4)+2(w x4) 148=12w + 48 + 8w

148 = 20w + 48

148 - 48 = 20 w + 48 - 48

100 = 20w

20 20

5 = w

Width = 5cm

To change 123, to base ten **27**.

 $= (1 \times 5^2) + (2 \times 5^1) + (3 \times 5^0)$

=(1x5x5x5)+(2x5)+(3x1)

= 25 + 10 + 3

= 38_{ten}

The 38 to base three

3 38 Rem.

3 12 2

3

0

123 = 1102 three

28a1 P = {21, 22, 22, 31} p=2x2x2x3

p = 24

 $Q = \{32, 33, 21, 22, 31\}$ b)

Q=3x3x2x2x3

Q = 108

LCM =Product of the union c)

LCM = 2x3x3x2x2x3

LCM = 216

No. of boys 29.

=60 - 25

=35 boys

Total marks for girls

 $=65 \times 25$

= 1625 marks

Total marks for boys

 $= 50 \times 35$

= 1750 marks

Total marks

= 1625 + 1750

= 3375 marks

Mean mark for the class

= 3375 ÷ 60

= 561/4 marks

Let the height of the smaller 30.

one be h,

Capacity = 300 ml

Height of the larger bottle

= 12cm, capacity = 8100ml

300:h=8100:12

 $\frac{300}{h} = \frac{8100}{12}$

8100h = 300 x 12 8100h = 3600 8100 8100 $h = \frac{36}{81}$

Actual amount of money spent 31. on school fees

= Shs600,000-Shs380,000

= Shs220,000

Amount of money spent on the 1st child's school fees

= 6/11 x Shs220,000

= Shs120,000

Amount of money spent on the 2nd child's school fees

 $=\frac{2}{11}$ x Shs220,000

= Shs40.000

Amount of money spent on the 3rd child's school fees

 $=\frac{3}{11}$ x Shs220,000

= Shs60,000

One monthly installment **32**.

 $\frac{20}{100}$ x Shs120,000

= Shs24.000

Total amount in installments

 $= Shs24.000 \times 5$

= Shs120.000

Hire purchase price

= Shs24,000 + Shs120,000

= Shs144,000

So. Martin paid less by:

Shs144,000 - Shs100,000

= Shs44.000