ANSWERS TO SOCIAL STUDIES WITH RELIGIOUS STUDIES

1. linear scale
2. They were fixed and easily identified.
3. Such areas are at a low altitude.
4. Mombasa
5. To oversee government programs/supervises civil servants.
6. The empire acquired guns for defence.
7. Has replaced human labour.
8. Taxi parks.
9. Requires less capital.
10. A hump.
11. Increased population.
12. Surplus budget.
13. Nuclear family.
14. For proper planning.
15. Source of limestone used to manufacture cement.
16. Provide tannin used in leather tanning industry.
17. Receives little or no rainfall.
18. It is waterproofed.
19. Leads to land fragmentation.
20. Africa's wealth and bright future.
21. Drakensberg Mountain.
22. It is easier to provide social services.
23. Tree roots bind soil particles.
24. season river.
25. Donald Cameron.
26. Party for the HUTU Emancipation (PARMEHUTU).
27. Causes days and nights.
28. An election held in a country to decide on certain political issue.
29. Railway transport.
30. Promotes peace and security.
31. He formed Universal Negro Improvement Association.
32. New York in USA.
33. By promoting girl child education.
34. He signed treaties with the local chiefs/ formed GEACo.
35. Created jobs/source of income.
36. EITHER: love your neighbour as you love yourself.
OR: Shirk.
37. EITHER: Deliverance.
OR: Praised one.
38. EITHER: Elijah.
OR: Muhammad.
39. EITHER: 6 days.
OR: 6 days.
FOR BOTH CANDIDATES.
40. Through prayers.

SECTION B (60 marks).
41 a) Through promoting UPE/ Promoting adult education.
b) Limited funding/classrooms.
c) Increasing capitation grant/providing enough scholastic materials.
42. a) i. H-R.Katonga
ii. K-Nyero stone age.
b)
c) Attract tourists who bring income.
43. a) Repairs shoes
b) Mechanic
c) Shaves hair
d) Bursar
44 a). Refers to racial segregation in south Africa.
b) Through setting separate schools/Through setting separate hospitals for different races.
c) He allowed the first multiracial elections in South Africa.
45. a) Equatorial vegetation.
b) Mediterranean Sea.
c) Bring cool conditions to areas they move to.
d) To protect their heads from direct heat from the sun.
46(a) Both sent European explorers to Africa
(b) Most European explorers sent to West Africa died from there
(c) John Speke/Henry Morton Stanley
47(a) Apartheid policy
(b) Through setting separate schools, homes, hospital for different races/through discouraging Africans from participating in Sports activities.
(c) To remember African students that were killed during Soweto uprising
48a) He founded the Universal Negro Improvement Association.
b) Kwame Nkrumah.
c) • To fight against racial discrimination. /To fight for the rights of Africans.
49a) Tazara railway.
b) Copper is transported to the coast for export.
c) They get taxes from the goods transported using the railway line.
d) Chinese experts.
50. a) Bantu.
b) • There was fertile soil for farming. / The areas received reliable rainfall.
c) They are farmers.
51. Either: a) Paul.
b) Should be patient/kind.
c) To promote harmony.
OR: a) Muhammad
b) Should be patient/kind.
c) To promote harmony.
52. Either: a) Magi.
b) They refused to report to King Herod.
c) Gold/Myrrh, Frankincense.
d) Epiphany.
OR: a) Abu Talib.
b) Halima.
c) Patience/kindness.
53. Either: a) Holy Matrimony.
b) Promotes love among married couples/Married couples are blessed by God.
c) The Bible discourages divorce.
Or: a) Nikkah
b) Promotes love among married couples/Married couples are blessed by God.
c) Means divorce.
54. EITHER: a) The mother of Jesus Christ.
b) Joseph
c) Cousin to Jesus Christ.
d) Elizabeth
OR: a) Closest friend of Jesus Christ.
b) Halima
c) Uncle to Prophet Muhammad
d) Abdul Mutallib
FOR BOTH:
55.a) Right to mate/Right to move.
b) Failure to treat animals/ Failure to give animals food / Through torturing animals to

ANSWERS TO MATHEMATICS

1. 2 7
+ 6 1
8 8

2. Find n(x)
x = {1, 2, 3, 4, 5}
x = 5

3. 5 4 . 6 7
6 is nearer 1 than to 0
54 ones = 54 x 1
= 54 + 1 = 55
54.67 Ω 55

4. 2, 3, 6, 12, 22, 37
+1 +3 +6 +10 +15

5. -2 - -8 = -2 + 8
= +6

6. 2(a - b) = 2 (-3 - 2)
= 2 (-5)
= -10

7. 25km are covered by 7 litres
1km is covered by $^{7}/_{25}$ litres
25km will be covered by
$\frac{7}{25} \times \frac{75}{1}$
= (7 x 3) litres
= 21

8. 0025HR = 1 2 0 0HR
+ 0 0 2 5HR
1 2 0 0am

9. sh. 1 6 5 0 0 0
+ sh. 2 5 0 0 0
sh. 1 9 0 0 0 0
= sh. 190000
50
= sh. 3,800

10. $2 \times n^1 + 2 \times n^0 = 1 \times 3^2 + 1 \times 3^1 + 2 \times 3^0$
$2x n + 2 \times 1 = 1 \times 3 \times 3 + 1 \times 3 + 2$
$2n + 2 = 9 + 3 + 2$
$2n + 2 - 2 = 9 + 3 + 2 - 2$
$2n + 0 = 9 + 3$
$2n = 12$
$\frac{2n}{2} = \frac{12}{2}$ n = 6
n is base six

11. $A = {}^{1}/_{2}\pi r^2$
$= \frac{1}{2} \times \frac{22}{7} \times 21cm \times 21cm$
$= 1 \times 11 \times 3cm \times 21cm$
$= 33cm \times 21cm$
$= 693cm^2$

12. $6S^2 = 24cm^2$
$6S^2 = 24cm \times cm$
$\frac{6S^2}{6} = \frac{24cm \times cm}{6}$
$S^2 = 4cm^2$
$\sqrt{S^2} = \sqrt{4cm^2}$
$\sqrt{S} \times S = \sqrt{2cm} \times 2cm$
S = 2cm

13. $2\,5\,0^0$
$-\,1\,8\,0^0$
$0\,7\,0^0$
The bearing of B from A is 070^0

14. B : G
3 : 2
TR = 3 + 2 = 5
3 parts repr ..... 18 boys
1 part will repre ..... $^{18}/_{3}$
5 parts will represent
$\frac{18}{3} \times 5$
= 6 x 5 = 30
There are 30 pupils in the class

16. $n + 68^0 = 133^0$
$n + 68^0 - 68^0 = 133^0 - 68^0$
$n + 0 = 65^0$
$n = 65^0$

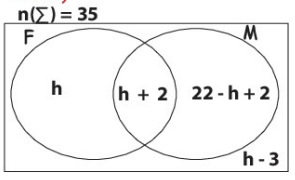
17. Along the length
$\frac{L}{S} = \frac{90m}{5m}$ = 18 poles
Along the width
$\frac{W}{S} = \frac{30m}{5m}$ = 6 poles
Poles = 2(L + W) - 2
= 2(8 + 6) - 2
= (2 x 14) - 2
= 28 - 2 = 26 poles

18. Let the fraction be m
10m = 0.2 x 10 i
100m = 0.23 x 100 ii
1000m = 0.233 x 1000 iii
1000m = 233.33 ...
- 100m = - 23.33...
900m = 210
$\frac{900m}{900} = \frac{210}{900}$ $m = {}^{21}/_{90}$
$m = {}^{7}/_{30}$

19. 0.00457 x 10 = 0.0457
0.0457 x 10 = 0.457
0.457 x 10 = 4.57
therefore 0.00457
$= 4.57 \times 10^{-3}$

20. 48 51, 51, 63, 66, 67
$\frac{51 + 63}{2} = \frac{114}{2}$
= 57

21. a)
n(∑) = 35



b) h + h + 2 + 22 - h + 2 + h - 3 = 35
h + h + h - h + 22 + 2 + 2 - 3 = 35
2h + 26 - 3 = 35
2h + 23 = 35
2h + 23 - 23 = 35 - 23
$\frac{2h}{2} = \frac{12}{2}$ h = 6
c) h + h + 2 = 6 + 6 + 2
= 14
14 Guests ate fish

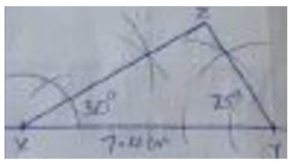
22. D = S x T
= 90km x 22/3hr
$= 90km \times \frac{8hr}{3hr}$
= 30 x 8 = 240km
If 60% repr 240km
Then 100% will represent
$\frac{260km}{60} \times \frac{100\%}{1}$
= 4km x 100 = 400km

23. EF + $24cm^2 = 30cm^2$
Let the height EF be a
$a^2 + 24^2 = 30^2$
$a^2 + 24 \times 24 = 30 \times 30$
$a^2 + 576 = 900$
$a^2 + 576 - 576 = 900 - 576$
$a^2 + 0 = 324$
$\sqrt{a} = \sqrt{324}$
$\sqrt{a \times a} = \sqrt{18 \times 18}$
a = 18cm
Height of EF = 18cm
Area of a triangle
$A = {}^{1}/_{2} \times b \times h$
$= \frac{1}{2} \times 24cm \times 18cm$
= 24cm x 9cm
$= 216cm^2$
Area of the circle
$A = 216cm^2 - 62cm^2$
$= 154cm^2$
$\pi r^2 = 154cm^2$
$= \frac{22}{7} \times r^2 = 154cm^2$
$\frac{7}{7} \times \frac{22}{7} \times r^2 = 154cm^2 \times 7$
$= 22 \times r^2 = 154cm^2 \times 7$
$= \frac{22r^2}{22} = \frac{154cm^2 \times 7}{22}$
$r^2 = 7cm \times 7$
$r \times r = 7cm \times 7cm$
r = 7 cm
The radius is 7cm

24. Fees = $^{1}/_{3}$
Transport = $^{1}/_{4}$
Clothes = $^{1}/_{8}$
$\frac{1}{3} + \frac{1}{4} + \frac{1}{8} =$
$= \frac{(8 \times 1) + (6 \times 1) + (3 \times 1)}{24}$
$= \frac{8 + 6 + 3}{24} = \frac{17}{24}$
$1 - \frac{17}{24} = \frac{24}{24} - \frac{17}{24}$
$= \frac{24 - 17}{24} = \frac{7}{24}$
He saved $^{7}/_{24}$

b) If $^{7}/_{27}$ repr sh. 280,000
then $^{27}/_{7}$ will repr
$= \frac{27}{7} \times$ sh. 280,000
= 27 x sh. 40,000
= sh. 1,080,000

25. sketch



b) 4.8cm

26. $^{8}/_{10}$ (h - 2) - $^{25}/_{100}$(h - 6) = 1
$\frac{8h}{10} - \frac{16}{10} - \frac{25h}{100} - \frac{150}{100} = 1$
$\frac{80h}{100} - \frac{160}{100} - \frac{25h}{100} - \frac{150}{100} = 1$
$\frac{80h - 160 - 25h - 150}{100} = 1$
$\frac{55h - 310}{100} = 1$
$\frac{55h - 310}{100} \times 100 = 1 \times 100$
55h - 310 = 100
55h - 310 + 310 = 100 + 310
55h = 410
$\frac{55h}{55} = \frac{410 \div 5}{55 \div 5}$
$h = {}^{82}/_{11}$ $h = 7^{5}/_{11}$

b) Let the years when Nakiwala be $^{1}/_{2}$ as old as Abalo be m

	Nakiwala	Abalo
Now	4yrs	18
in m yrs	4 + m	18 + m

(4 + m) = 1/2(18 + m
(4 + m)2 = 2(18 + m)
4 x 2 + 2 x m = 18 + m
8 + 2m = 18 + m
8 - 8 + 2m = 18 - 8 + m
2m = 10 + m
2m - m = 10 + m - m
m = 10
In 10 years time

27. Bread: sh.5500 x 2 = sh. 11,000
Soap: 3 x sh. 6200 = sh. 18600
Salt: 500g = $^{1}/_{2}$kg
$2^{1}/_{2}$kg ÷ $^{1}/_{2}$kg
$= \frac{5}{2} \div \frac{1}{2} = \frac{5}{2} \times \frac{2}{1}$
= 5 packets of 500g or $^{1}/_{2}$kg
= sh. 600 x 5 = sh. 3,000
Total: sh. 11,000
+ sh. 18600
sh. 3,000
sh. 32,600

b) 100% - 10% = 90%
$= \frac{90}{100} \times$ sh. 32600
= 9 x sh. 3260
= sh. 29340