

(JESMA)
009)

MATHEMATICS

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In the Question Hou\let

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In the set of bows numbered 14, the bo with the letter I printed in it m marked

II For dark line Mt ST be within the box.

I For each question ON[, ' ONF box to be marked in each set of four boxes

This question paper consists of printed pages.

Can l+dates should check the question paper to ensure that all

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K.C.P.E FINAL TRIAL STANDARD EIGHT 2021

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Time: 2 hours

READ THROUGH INSTRUCTIONS CAREFULLY

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- You have been given this question booklet and a separate answer sheet. The question booklet contains 30 questions.
- Do any necessary rough work in this booklet.
- When you have chosen your answer, mark it on the ANSWER SHEET, not in the question booklet.

PLEASE FILL IN THE ANSWER SHEET

- Use only an ordinary pencil.
- Make sure that you have written on the answer sheet:

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

- By drawing a dark line inside the correct numbered boxes mark your full index number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
- Do not make any marks outside the boxes.
- Keep your answer sheet as clean as possible and DO NOT FOLD IT.
- For each of the questions 1 – 10, four answers are given. The answers are lettered A, B, C and D. In each case only ONE of the four answers is correct. Choose the correct answer.
- On the answer sheet, the correct answer is to be shown by drawing a dark line inside the box in which the letter you have chosen is written.

Example

In the Question Booklet

10. What is $1.225 \div 35$?

- A. 35
- B. 0.035
- C. 3.5
- D. 0.35

The correct answer is B (0.035)

On the answer sheet:



In the set of boxes numbered 10, the box with the letter B printed in it is marked.

- What shall line 11 be within the box.
- For each question ONE box is to be marked in each set of four boxes.

This question paper consists of 8 printed pages.

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009

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TURN OVER

Which of the following is six million ninety thousand four hundred and twenty eight?

1. Which of the following is six million ninety thousand four hundred and twenty eight?
 A. 6 900 428 B. 6 900 248
 C. 6 009 428 D. 6 090 428

2. What is the value of $360 - \frac{(828 \div 7) \times 23}{18}$?
 A. 36 B. 18
 C. 27 D. 24

3. What is the value of $3^3 + 3^3 - \frac{7}{15} - \frac{1}{?}$?

What is the value of $\frac{1.2 \times 0.4 + 0.8 - 0.24}{?}$?

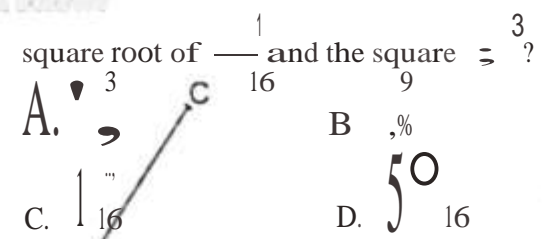
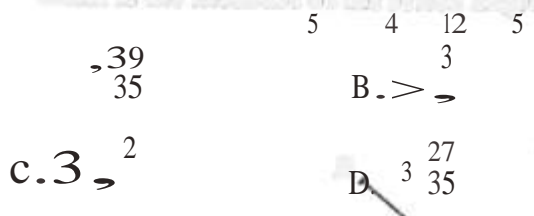
4. What is the value of $\frac{1.2 \times 0.4 + 0.8 - 0.24}{?}$?
 A. 14 B. 5.6
 C. 26 D. 0.56

What is 389 967 rounded off to the nearest hundred?

5. What is 389 967 rounded off to the nearest hundred?
 A. 390 000 B. 389 900
 C. 399 000 D. 380 000

What is the difference in the value of the

6. What is the difference in the value of the



7. What is the measure of the reflex angle ABC drawn below?

- A. 31° B. 99° C. 279° D. 101°

The table below shows the price list of food at Kula Ushibe Hotel.

Item	Tea	Coffee	Ugali	Sukuma	Beaf	Rice	Fish
Price	30	50	70	35	150	80	180

- A. 81° B. 99° C. 279° D. 101°

8. The table below shows the price list of food at Kula Ushibe Hotel.

Item	Tea	Coffee	Ugali	Sukuma	Beaf	Rice	Fish
Price	30	50	70	35	150	80	180

Seven people went to the hotel and wanted to take lunch. Two of them took aali sukuma and a cup of tea. Three of them took rice with beef only. The rest took ugali fish and a cup of coffee. How much in total did they pay?

- A. Sh. | 560 B. Sh. | 460 C. Sh. | 390 D. Shs. | 080

9, What is the simplified form of the expression

$$4(3x - 3) + 2(2 - x + 4)$$

- A. $14x + 12 + 20$ B. $14x + 8y + 20$ C. $10x - 12r + 20$ D. $10r - 20$

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 C L D) 4%

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D. 4cm

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19. The table below shows the arrival and departure times for buses from a certain company in route A to E.

20. The table below shows the arrival and departure times for buses from a certain company in route A to E.

Town	Arrival time	Departure
A		6:30am
B	7:30am	8:00am
C	10:30am	10:45am
D	12:45pm	12:55pm
E	3:15pm	

21. Joan is five years older than her brother James. James is x years old now. Write an expression to show the sum of their ages in

21. Joan is five years older than her brother James. James is x years old now. Write an expression to show the sum of their ages in

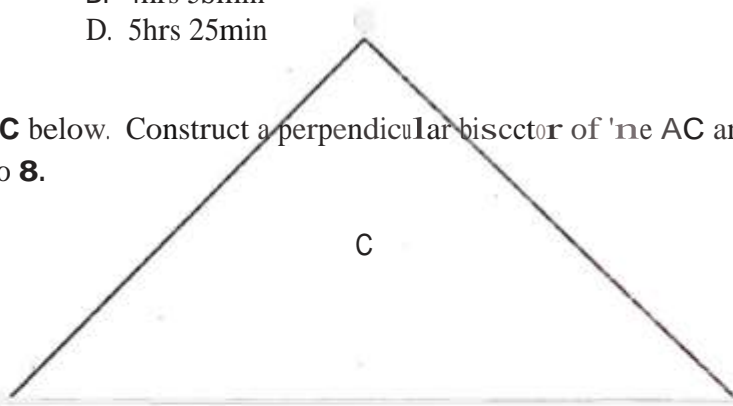
10 years time.

- A. $25 + 2x$
- B. $2x + 10$
- C. $5x + 20$
- D. $5 + 10$

How long does it take to travel from town B to D?

- A. 4hrs 4Smin
- B. 4hrs 5Smin
- C. 5hrs 1 Smin
- D. 5hrs 25min

22. In the triangle ABC below. Construct a perpendicular bisector of the AC and line BC to meet at point X. Join X to B.



What is the length of the line BX?

- A. 3.8cm
- B. 5.2cm
- C. 4.3cm
- D. 4.7cm

What is the length of the line BX?

- A. 3.8cm
- B. 5.2cm

23. The mean of five numbers is 11. Four of the numbers are 12, 13, 8, and 9. What is the mode of the five numbers?

- A. 12
- B. 13
- C. 10
- D. 11

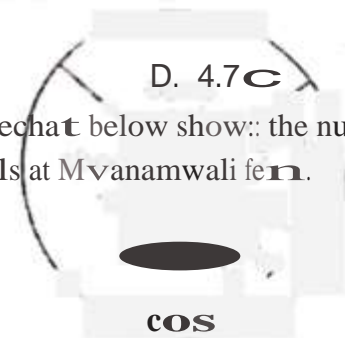
24. What is the value of $3(2y+4) - 6 = 8$?

- A. 4

25. The pie chart below shows the number of animals at Mvanamwali farm.

- C. 4.3cm
- D. 4.7cm

25. The pie chart below shows the number of animals at Mvanamwali farm.



6° 64°

- A. 32
- B. 5?

3

3

C. $+\frac{!}{3}$

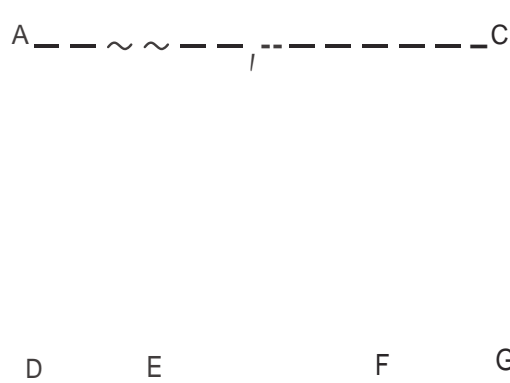
D. $\ll \frac{?2}{3}$



If the number of cows is 384, how many more goats than camels are there?

- A. 96
- B. 256
- C. 100
- D. 416

26. The circumference of the base of an open cylinder is 132cm. What is the surface area in cm^2 if the height is 20cm?
 A. 1386 cm^2 B. 27 720 cm^2
 C. 5412 cm^2 D. 4026 cm^2
27. Solve the inequality below.
 $12j + 9 < 36 - 4y$
- A. $5 \frac{1}{16}$ B. $\frac{9}{9}$
 C. $1 \frac{1}{16}$ D. $5 \frac{9}{8}$
28. Karani and Kawira shared some money in the ratio 5:7. If Kawira got sh. 2800 more than Karani. How much money did they share in total?
 A. Sh. 16 800 B. Sh. 33 600
 C. Sh. 14 000 D. Sh. 19 600
29. Eric spent $\frac{1}{5}$ of his salary on rent $\frac{2}{7}$ on school fees and $\frac{2}{7}$ to buy food. She saved the rest which was sh. 5 800. How much was his salary?
 A. Sh. 58 000
 • Sh. 48 000
 C. Sh. 36 000
 D. Sh. 24 000
30. Wangila sold a bike at Sh. 9900 making a 10% loss. At what price would he have sold it to make a 25% profit?
 A. Sh. 1 000 B. Sh. 12 375
 C. Sh. 13 750 D. Sh. 8910
31. What is the value of $35(a+b) + bc$ if $a = b = 3$ and $c = 2$

33. An aeroplane flew for 4 hours landing at its destination on Tuesday 0425hrs. At what day and time had the plane started the journey?
 A. Monday 10:55pm
 B. Tuesday 10:55pm
 C. Tuesday 4:55pm
 D. Monday 4:55pm
34. A section of a road 24km is represented on a map by 5cm. What is the scale used?
 A. 1:480
 B. 1:4 800
 C. 1:48 000
 D. 1:480 000
35. The width of a rectangle is 35m and the length of the diagonal is 125m. What is the measurement of the length?
 A. 100m B. 150m
 C. 120m D. 175m
36. In the figure below line ABC is parallel to DEFG
- 
- What is the size of angle BEF?
 A. 45° B. 135°
 C. 90° D. 55°
37. In a certain location, the population is 51907. The number of children is 453

32. The circumference of the base of an open cylinder is 18cm. What is the surface area in cm² if the height is 20cm?
 C. 60 306cm² B. 87 716cm²
 D. 36 306cm²

32. Which of the following sets of measurement is for a right angled triangle?
 A. 3cm, 4cm, 6cm.
 B. 10cm, 24cm, 26cm
 C. 5cm, 13cm, 15cm
 D. 6cm, 8cm, 12cm

33. Harini and Hawin shared some money in the ratio 3:7. If Hawin got sh. 2000 more than Harini. How much money did they share in total?
 A. Sh. 10 000 B. Sh. 35 000
 C. Sh. 18 000 D. Sh. 19 000

34. Eric spent $\frac{1}{5}$ of his salary on rent, $\frac{2}{5}$ on school fees and $\frac{1}{5}$ to buy food. He saved the rest which was sh. 3 000. How much was his salary?
 A. Sh. 50 000
 B. Sh. 45 000
 C. Sh. 15 000
 D. Sh. 25 000

35. Wangila sold a bike at Sh. 9 000 making a 10% loss. At what price would he have sold it to make a 25% profit?
 A. Sh. 11 000 B. Sh. 10 500
 C. Sh. 10 250 D. Sh. 8 000

36. What is the value of $3x$ if $(x+2) = 2x$
 if $a = 3$ and $b = 2$
 A. 25 B. 27
 C. 28 D. 26

37. Which of the following sets of measurement will form a right angled triangle?
 A. 3cm, 4cm, 6cm.
 B. 10cm, 24cm, 26cm
 C. 5cm, 12cm, 15cm
 D. 6cm, 8cm, 12cm

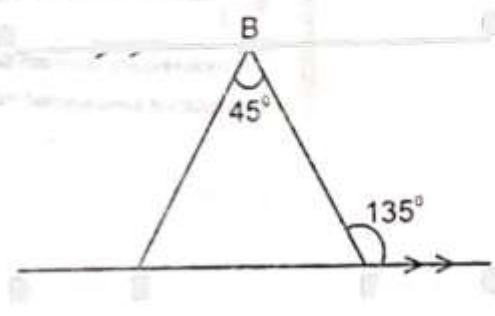
38. An aeroplane flew the 2nd landing at its destination on Tuesday 6:15pm. At what day and time had the plane started the more than that of women. The number of women is 18 459 and the rest was men. What is the number of men?
 A. 12 905
 B. 19 002
 C. 18 912
 D. 14 536

39. A road 20km is represented on a map by 4cm. What is the scale used?
 A. 1:500
 B. 1:5000
 C. 1:50 000
 D. 1:500 000

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40. The width of a rectangle is 11m and the length of the diagonal is 15m. What is the measurement of the length?
 A. 16m B. 10m
 C. 13m D. 12m

41. In the figure below line AB is parallel to DE.

What is the size of angle BDE?
 A. 45° B. 135°
 C. 90° D. 55°

42. In a certain location, the population is 21 907. The number of children is 653 more than that of women. The number of women is 10 450 and the rest was men. What is the number of men?
 A. 12 905
 B. 19 002
 C. 18 912
 D. 14 536

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38. The table below shows the charges of sending small parcel upto 2kg.

Mass of the packcl	Within East Africa	The Rest of Africa	Rest of the world
Not over 2g	29	34	48
Not over 100g	78	150	134
Not over 250g	167	194	255
Not over 500g	299	355	462
Not over 1 kg	509	598	658
Not over 2kg	708	830	1 089

Donald sent the following parcels.

1.5kg to Uganda

800g to Nigeria

450g to China (rest of the world)

How much money did he pay altogether?

A. Sh. 2 209

B. Sh. 1 768

C. Sh. 3 342

D. Sh. 1 628

39. 12 men can complete a certain job in 8 days. How many more days will it take 6 men working at the same rate?

A. 16

B. 8

C. 24

D. 18

41. Njoroges land is in a shape of a rhombus of sides 170m. The longer diagonal is 300m. What is the area of the piece of land?

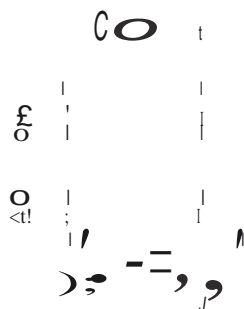
A. 24 000m²

B. 48 000m²

C. 51 000m²

D. 25 500m²

40. The diagram below show a rectangular block of wood in which a cylindrical hole has been drilled through.



What is the volume of the wood that remained after the hole was made?

A. 15 840cm³

B. 6 160cm³

C. 9 680cm³

D. 25 520cm³

42. A cylindrical tin has a radius of 7cm and height 8cm. How many such tins will be packed in a carton measuring 84cm by 56cm by 32cm?

A. 24

B. 96

C. 36

D. 48

43. The figure below show a stack of cubes.

If the stack was dipped in paint, how many cubes got the paint on three faces?

A. 80

B. 8

C. 9

D. 40

88. The table below shows the charges of sending small parcels via air.

Mass of the parcel	Within East Africa	The Rest of Africa	Rest of the world
Not over 2kg	20	30	40
Not over 10kg	70	100	130
Not over 25kg	100	150	200
Not over 50kg	150	220	300
Not over 100kg	200	300	400
Not over 250kg	300	450	600

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Donald sent the following parcels.

1.5kg to Uganda

300g to Nigeria

450g to China (rest of the world)

How much money did he pay altogether?

A. Sh. 2 100

B. Sh. 1 700

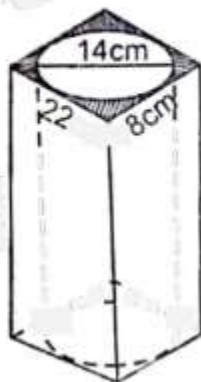
C. Sh. 9 300

D. Sh. 1 000

89. 18 men can complete a certain job in 8 days. How many more days will require 6 men working at the same rate?
- A. 16
B. 8
C. 20
D. 10

90. A square lead is in a shape of a rhombus of side 17cm. The longer diagonal is 30cm. What is the area of the piece of lead?
- A. 24 000cm²
B. 28 000cm²
C. 31 000cm²
D. 35 000cm²

91. The diagram below shows a rectangular block of wood. A hole is cut through the block as shown.

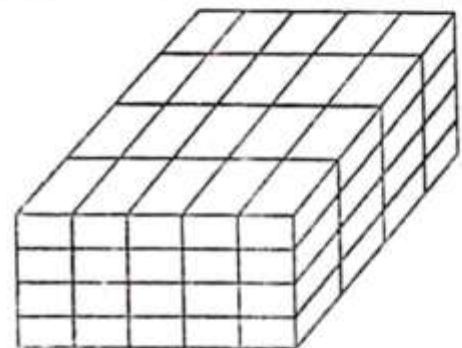


What is the volume of the wood that remained after the hole was made?

- A. 12 500cm³
B. 6 100cm³
C. 9 600cm³
D. 25 500cm³

92. A cylindrical tin has a radius of 5cm and height 10cm. How many tins will be packed in a carton measuring 50cm by 50cm by 50cm?
- A. 24
B. 36
C. 30
D. 48

93. The figure below shows a stack of cubes.



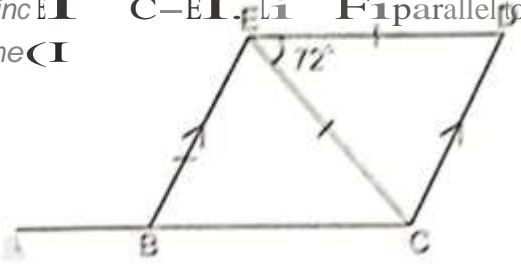
If the stack was dipped in paint, how many cubes get the paint on three faces?

- A. 24
B. 8
C. 30
D. 40

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44. In the figure below, $AB \parallel CD$ and $BC \parallel AD$. Line EF is parallel to line AD .

44. In the figure below, $AB \parallel CD$ and $BC \parallel AD$. Line EF is parallel to line AD . Find the size of angle FEA .



What is the size of angle FEA ?

- A. 107°
- B. 107°
- C. 63°
- D. 54°

45. Ochieng deposited Sh.200 000 in a bank that paid simple interest at the rate of 4% per annum. How much interest did the money earn in two years?

- A. Sh. 0
- B. Sh. 200 000
- C. Sh. 1600
- D. Sh. 216000

46. Four boys shared a total of Sh.720 as follows:

Jame got 1/4
 Jayden got 0.25
 Jamlic got 9/6 of the remainder while

Jutin got the rest
 How much did Justin get?

- A. Sh. 2%
- B. Sh. 1512
- C. Sh. 6192
- D. Sh. 100%

47. Due to wearing of mask the number of new hrcathin; related cases at Mama Lucy hospital has dropped from 1700 in January 2020 to 535 in January 2021. What was the percentage decrease?

- A. 55%
- B. 65%
- C. 35%
- D. 45%

48. A teachers workshop started at 8:30am. The first session took $1\frac{3}{4}$ hours followed by a 30min break. The second session took $1\frac{1}{2}$ hours and a 1 hour lunch break. The third session took 40min. At what time did the seminar end?

- A. 3:10pm
- B. 2:30pm
- C. 2:40pm
- D. 2:0pm

49. What is the square root of 0.0169?

- A. 0.0013
- B. 0.013
- C. 0.13
- D. 13

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**JESMA K.C.P.E PREDICTION WILL BE OUT ON 8TH MARCH
2021
DONT MISS!!!**

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