

KEYS EDUCATIONAL AND STATIONERY SERVICES (KESS)

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STANDARD SEVEN FIRST JOINT ASSESSMENT-2022

04E: MATHEMATICS

TIME: 2:00 HOURS

THURSDAY 17TH MARCH 2022

INSTRUCTIONS

- ❖ This paper consists of forty-five (45) questions with sections A and B.
- ❖ Answer all the questions in all sections.
- ❖ Read all the given instructions in the special answer sheet (OMR)
- ❖ Fill all the required information in the OMR form and the page with question number 41-45 in the question paper.
- ❖ Write your Examination Number and then shade the digits of the number in the respective place in your answer sheet (OMR).
- ❖ Shade the letter of the correct answer for each question in the answer sheet provided (OMR) for questions number 1 – 40. For example, if the correct answer is A shade as follows:

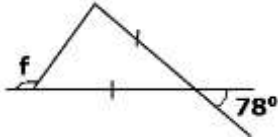
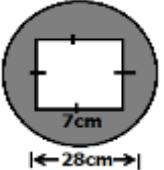
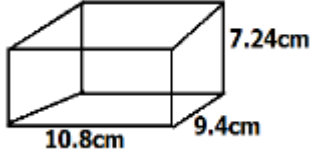
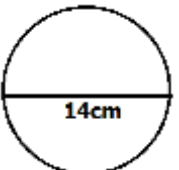
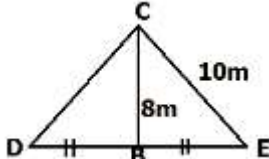
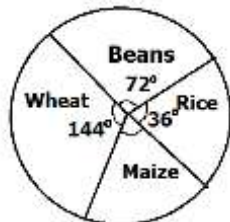
[A] [B] [C] [D] [E]

- ❖ If you have to change your answer, you must rub out the shading very neatly before shading the new one.
- ❖ Use a clean rubber.
- ❖ Use HB pencil only for questions 1-40, and a blue or black ink ball pointed pen for question number 41-45.
- ❖ Cellular phones are not allowed in the examination room.

SECTION A: MULTIPLE CHOICE QUESTIONS

Solve and choose the correct answer then shade its letter in the answer sheet given

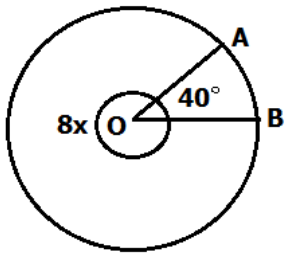
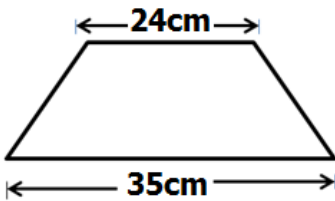
NO.	QUESTIONS	NO.	QUESTIONS
1.	What is the place value of 0 in the number 2073856? A. Ten thousands C. Millions E. Tens B. Thousands D. Hundred thousands	10.	A rope of length of 43.94m was divided into 52 equal pieces. How long was each piece in metres? A. 8.45m C. 0.854m E.0.0845m B. 84.5m D. 0.845m
2.	Mtokambali bought a plot of land for seven million ninety thousand and eight hundred shillings. Write that amount of money in digits. A. 79,000,800/= D. 7,900,800/= B. 7,090,800/= E. 7,009,800/= C. 700,900,800/=	11.	Baraka sells 50.25 litres of water daily. How many litres of water will he sell in two weeks? A. 705.5litres C. 70.55litres E. 55.75litres B. 703. 5litres D. 70.35litres
3.	Five pupils A, B, C, D and E were asked to write different numbers. Who wrote the largest number? A. 0.75 B. $\frac{1}{2}$ C. 50% D. -85 E. 0.25	12.	Jalina multiplied a certain number by itself and got 1521. Which number did she multiply? A. 31 B. 21 C. 29 D.39 E. 33
4.	The following sequence represents the heights of five pupils standing on a straight line from the tallest to the shortest: 80cm, 77cm, 71cm, 62cm, __. What is the height of the shortest pupil? A. 57cm B. 50cm C. 53cm D. 49cm E. 51cm	13.	Which of the following is the largest number that can divide 6, 12 and 18 without a remainder? A. 36 B. 32 C. 12 D. 3 E. 6
5.	Kadogoo had 50 pineapples. If he sold 15 pineapples, what fraction of the pineapples remained? A. $\frac{3}{4}$ B. $\frac{5}{7}$ C. $\frac{3}{5}$ D. $\frac{7}{10}$ E. $\frac{3}{10}$	14.	Standard five pupils were asked to calculate the sum of all Prime Numbers that are found between 12 and 20. What answer did they get? A. 32 B. 49 C. 30 D. 64 E. 45
6.	A tank of 200 litres was filled with water by 24 pupils. If each pupil used a gallon of 5 litres and poured water only once, what percentage of the tank was filled? A. 30% C. 60% E. 15% B. 90% D. 65%	15.	A teacher provided an assignment to pupils to list the even numbers between 28 and 62 which are multiples of 5. Which are those numbers? A. 5,10,15,20,25 D. 35, 45,55 B. 30,40,50,60 E. 35,45,55,60 C. 30, 35,40,45,50,55,60
7.	The electrical engineer bought a wire with a length of 3.0685m. What is the length of the wire in two decimal places? A. 3.06m C. 3.16m E. 3.67m B. 3.68m D. 3.07m	16.	Ado worked for 11 hours. If he started working at 7:30am, at what time in 24 hours format did he finish working? A. 1830 C. 1730 E. 1930 B. 0230 D. 1630
8.	A certain region has 2256102 people. Approximate that number of people to the nearest hundred thousands A. 2200000 C. 2250000 E. 25000000 B. 2300000 D. 2000000	17.	Samiry got a scholarship to study in India and he lived there for 3 years and 9 months. For how many months did he live in India? A. 39 months D. 46months B. 41 months E. 53 months C. 45 months
9.	Mwanakombo was born in MMIX. How old is she in 2022? (Write your answer in Roman Numbers) A. IX C. XIII E. XV B. XII D. XIX	18.	Which of the following years is a leap year? A. 2007 C. 2009 E. 2011 B. 2008 D. 2010

19.	The number of people in a certain district is 654390. If the number of women is 399056, how many men are in that district? A. 25334 C.552334 E. 255334 B. 334225 D. 205334	27.	Rose and James shared 600 000 shillings in the ratio of 5:7 respectively. How much did James get? A. 35000/= C. 275000/= E. 350,000/= B. 25000/= D. 3750000/=
20.	A telecommunication company has 8085 registered clients. If every client buys airtime of 550 shillings a day, how much money does the company collect in one day from its clients? A. 8635/= C. 6444750/= E. 4406750/= B. 7535 /= D. 4446750/=	28.	A mason fixed timber on the roof of a house as shown by the figure below. As an expert in geometry, what is the value of letter f? A. 102° D. 78° B. 51° E. 109° C. 129° 
21.	650 villagers of Mtakuja village contributed a total of 325000 shillings to build a school toilet. How much shillings did each villager contribute? A. 650/- C. 500/- E. 550/- B. 605/- D. 6500/-	29.	What is the area of the shaded region in the figure below? (Use $\pi = \frac{22}{7}$) A. 616cm ² D. 576cm ² B. 516cm ² E. 567cm ² C. 49cm ² 
22.	A teacher gave a work to pupils to find the value of y in the expression $7y-18-y= 72$ Which is the correct answer they got? A. 2 C. 12 E. 20 B. 9 D. 15	30.	A standard six pupil was asked to find the volume of the following rectangular prism. What answer did he get? A. 735.048cm ³ B. 7350.48cm ³ C. 735. 0048cm ² D. 101. 52cm ² E. 735.0048cm ³ 
23.	If $R-0.5=9$, what is the value of R? A. 0.9 C. 5.9 E. 2.5 B. 9.5 D. 10.5	31.	The circumference of a circle below is 44cm. What is a half of its radius? A. 7cm D. 7.5cm B. 28cm E. 21cm C. 3.5cm 
24.	Standard seven pupils were given an assignment to solve the following expression: $-2 - (- 17)$. What answer did they get? A. 16 C. -19 E. -15 B. + 15 D. + 19	32.	Find the perimeter of the triangle CDE if $BD= BE$ A. 48m D. 32m B. 26m E. 30m C. 40m 
25.	Mzee Kipara harvested 120 sacks of different food crops as shown by the pie chart below. How many sacks of maize did he harvest? A. 102 sacks B. 108sacks C. 80 sacks D. 36 sacks E. 96 sacks 	33.	A milk processing company supplied 2 500 litres and 500 millilitres of milk to 250 villagers during the milk drinking campaign. If the milk was supplied equally among the villagers, how much milk did each villager receive? A. 20litres 50ml D. 10litres 5ml B. 10litres 2ml E. 5litres 25ml C. 2lites 10ml
26.	One car left Dar es salaam to Mbeya. An hour later, another car left the same station to Mbeya at a speed of 80km per hour. After three hours, the second car overtook the first car. What was the speed of the first car? A. 240km/hour C. 40km/hour E. 60km/hour B. 120km/hour D. 100km/hour	34.	Chubi had two tanks of kerosene. The first tank was filled with 216 litres of kerosene. The second tank contained $\frac{3}{4}$ of the kerosene contained in the first tank. How many litres of kerosene were in the second tank? A. 162 litres C. 54 litres E. 56 litres B. 154 litres D. 156 litres

35.	If Halima would have sold her cupboard for 1 200 000 shillings, there would be a loss of 240 000 shillings, how much would she sell her cupboard to get the profit of 160 000? A. Sh. 1 440 000 D. Sh. 2 400 000 B. Sh. 1 500 000 E. Sh. 1 800 000 C. Sh. 1 600 000	38.	A carpenter bought 12 pieces of wood with a length of 3m, 30cm and 5mm each. What was the length of the pieces of wood altogether? A. 39m and 66cm D. 30m,46cm and 12mm B. 3m, 9cm and 66mm E. 66m and 39mm C. 36m, 1080m and 60mm
36.	The price of a mobile phone is 1 250 000 shillings. If Sozi was given a discount of $7\frac{1}{2}\%$, how much did he pay? A. Sh. 1,156,750 D. Sh. 1,176,250 B. Sh. 1,135,250 D. Sh. 1,156,250 C. Sh.1,100,750	39.	Think of a number, multiply it by 3 and add 5 to the product. If the answer is 20, what is the number? A. 5 C. $\frac{5}{7}$ E. 3 B. $\frac{3}{7}$ D. $\frac{7}{8}$
37.	Nishai got an interest of Sh. 36,000 after depositing Sh. 240,000 in a certain bank. If the money stayed in the bank for 2 years, what interest rate does that bank offer annually? A. $7\frac{1}{2}\%$ C. 6.5% E. 75% B. 15% D. $3\frac{1}{2}\%$	40.	Samia's vegetable garden has a length of 32m and a width of 8m. Daud's square vegetable garden has the same area as Samia's vegetable garden. Calculate the length of Daud's vegetable garden. A. 13m B. 18m C. 20m D. 16m E. 12m

SECTION B: MATHEMATICAL OPERATIONS, FIGURES AND WORD PROBLEMS

For each of the questions 41-45, use a **blue** or **black pen** to work out the answer in the space provided on the OMR form.

NO.	QUESTIONS	WORK SPACE
41.	Calculate the value of x in the following figure if \overline{OA} is the radius of the circle. 	
42.	Find the area of the following figure if its height is 18cm 	
43.	The average weight of 6 people is 75kg. If the total weight of the first 3 people is 315kg, find the average of the last three people.	
44.	The age of Alia is twice that of Almah. After two years, the sum of their ages will be 40 years. What is the present age of Alia?	
45.	Tulia uses 0.25 of her monthly salary for paying the house rent and 0.125 for food. If she remains with 525,000/=, what is her monthly salary?	