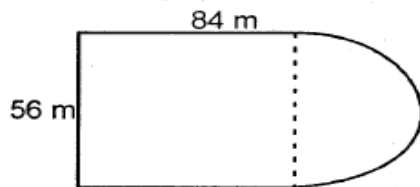


STANDARD SEVEN MID TERM ONE EXAM 2018
MATHEMATICS

1. What is the place value of digit 4 in the number 5248697?
A. Hundreds of thousands
B. Tens of thousands
C. Millions
D. Thousands
2. Add the square root of 2304 to the square of 28
A. 832
B. 2332
C. 104
D. 64512
3. Which one of the following numbers is divisible by 11?
A. 520104
B. 39869
C. 24640
D. 15921
4. The figure below represents Mutinda's plot of land. What is its perimeter? (Take $\pi = \frac{22}{7}$)



- A. 328 m
B. 424 m
C. 368 m
D. 312 m
5. What is the number 93.2786 rounded off to two decimal places?
A. 93.20
B. 93.28
C. 93.27
D. 94.00
6. A school has 400 pupils. If 40% of the pupils are girls, how many more boys than girls are in the school?
A. 240
B. 160
- C. 80
D. 120
7. A farmer harvested 425 bags of maize each weighing 90kg. What was the total mass of the maize in tonnes?
A. 0.425
B. 282.5
C. 38250
D. 38.25
8. What is the next number in the pattern 2, 7, 17, 32, 52, 77, _____?
A. 107
B. 97
C. 98
D. 108
9. What is the value of $4^{3/7} \div 4^{2/3}$?
A. $20^{2/3}$
B. $16^{6/21}$
C. $1^{5/93}$
D. $9^{3/98}$
10. Which one of the following numbers has the LEAST value?
A. 102002
B. 102020
C. 102202
D. 102220
11. What is the largest number that can divide 16, 24 and 48 without a remainder?
A. 8
B. 96
C. 16
D. 144
12. A trader sold a shirt at sh 1080 thereby making a loss of 20%. What was the buying price of the shirt?
A. sh 2700
B. sh 1296

C. sh 1350

D. sh 1290

13. In the year 2014, the number of pupils enrolled in a school was 620. In the year 2015, the number of pupils enrolled in the school was 485 more than those enrolled in the previous year 2014. How many pupils were enrolled in the school in the two years?

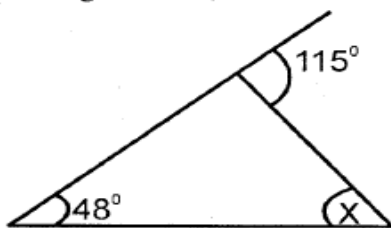
A. 1295

B. 1725

C. 1105

D. 1546

14. In the figure below, all lines are straight lines.



What is the measure of the angle marked X° ?

A. 65°

B. 113°

C. 48°

D. 67°

15. What is 2000000 cm^3 converted to m^3 ?

A. 2000

B. 2

C. 20

D. 20000

16. Work out;

$$0.04 \div 0.0002 =$$

A. 200

B. 2000

C. 20

D. 0.002

17. The area of a square plot of land is 2704m^2 . What is twice the perimeter of the plot?

A. 208 m

B. 10816 m

C. 104 m

D. 416 m

18. A length of 5cm on a map represents an actual distance of 100km. What length on the map would represent a road measuring 160km?

A. 12 cm

B. 80 cm

C. 8 cm

D. 20 cm

19. How many groups of 100 are in the total value of digit 4 in the number 1458269?

A. 40

B. 4000

C. 400

D. 40000

20. A trader bought 30 eggs for sh 300. He later sold the eggs at sh 12 each. What percentage profit did the trader make?

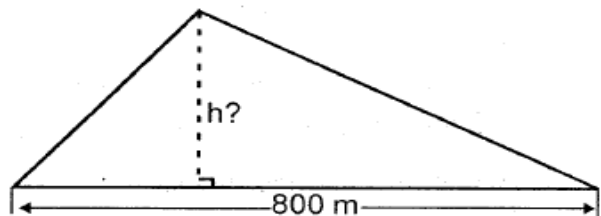
A. $16\frac{2}{3}\%$

B. 60%

C. 20%

D. 15%

21. The diagram below shows Oanga's plot of land whose area is 24 hectares. What is the length of the marked h in metres?



A. 400

B. 300

C. 150

D. 600

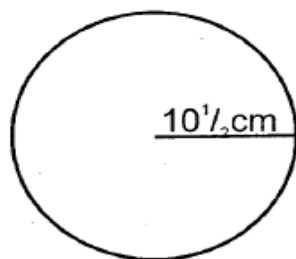
22. A family consumes four 200 ml packets of milk each day. How many litres of milk did the family consume in the month of March 2016?

- A. 6.0 L
- B. 24 L
- C. 24.8 L
- D. 6.2 L

23. Which of the following fractions is a terminating decimal?

- A. $\frac{2}{9}$
- B. $\frac{4}{11}$
- C. $\frac{9}{17}$
- D. $\frac{7}{8}$

24. What is the circumference of the circle drawn below?
(Take $\pi = \frac{22}{7}$)



- A. 66 cm
- B. 88 cm
- C. 27 cm
- D. 33 cm

25. What is the value of P in the equation $\frac{5}{8}p + 5 = 10$?

- A. 8
- B. $3\frac{1}{8}$
- C. 24
- D. 4

26. Three lights are set to flash after 12 min, 15 min and 45 min. They flashed together at 10.20 am. After how long would they flash together again?

- A. 1h 30 min
- B. 1.20 pm
- C. 3 hrs
- D. 1 hr

27. What is the value of

$$\frac{64 + 16 - 5}{8}$$

- A. 5

- B. 107
- C. 61
- D. 10

28. A train left Mombasa for Nairobi at 1830h. It took 12h 45 min on the way. At what time did it reach Nairobi?

- A. 6.15 am
- B. 7.15 am
- C. 7.25 pm
- D. 6.30 am

29. Work out; $\frac{1}{8} - 3 + 3\frac{3}{4}$

- A. $2\frac{3}{8}$
- B. $4\frac{3}{8}$
- C. $6\frac{5}{8}$
- D. $\frac{7}{8}$

30. A tank measuring 2.5m long, 2.0m wide and 4m high was filled with water. The water started leaking at the rate of 5 litres per second. How long did it take to drain the whole tank?

- A. 60h 20 min
- B. 66h 20 min
- C. 66min 20 sec
- D. 44h 20 min

31. What is the place value of digit 2 in the number 58.132?

- A. Ones
- B. Tenths
- C. Hundredths
- D. Thousandths

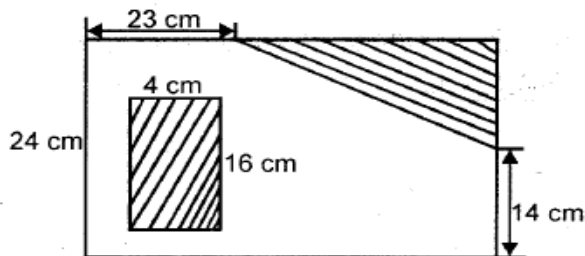
32. In one year, there were 540 members in a sports club. The member later increased by 15%. What was the new number of members in the sports club?

- A. 621
- B. 580
- C. 555
- D. 640

33. Rachel bought the following items;
 Two -2kg packets of flour @ sh 115
 $2\frac{1}{2}$ kg of sugar @ sh 120
 2 litres of cooking oil for sh 368
 2kg of meat @ sh 320

How much money altogether did she pay?

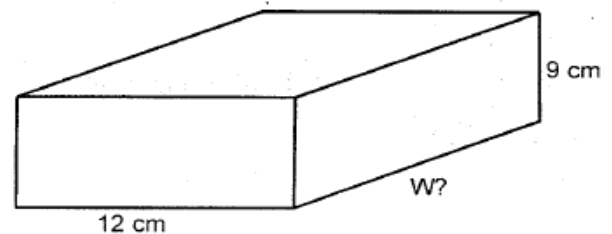
- A. sh 938
 B. sh 1486
 C. sh 1218
 D. sh 1018
34. A packet of detergent weighs 1kg 250g. what is the mass of 18 such packets?
 A. 20 kg 500 g
 B. 18 kg 500 g
 C. 22 kg 500 g
 D. 4 kg 518 g
35. What is the area of the unshaded part in the figure below?



- A. 950 cm^2
 B. 165 cm^2
 C. 1344 cm^2
 D. 1115 cm^2
36. Simplify;
 $3(7x + 4p) + 2(x - 3p)$
 A. $23x - 18p$
 B. $23x + 18p$
 C. $23x + 6p$
 D. $23x - 6p$
37. Which one of the following numbers is nineteen million two hundred and three thousand five hundred and fifty?
 A. 19203550
 B. 19230550

- C. 19203505
 D. 190223550

38. Peter had four sticks of equal lengths. He made a square by joining the sticks. The square covered had an area of $2\frac{1}{4} \text{ m}^2$. what was the length of each stick?
 A. $1\frac{1}{4} \text{ m}$
 B. $\frac{9}{16} \text{ m}$
 C. $\frac{3}{4} \text{ m}$
 D. $1\frac{1}{2} \text{ m}$
39. What is 72 km/h covered into m/s?
 A. 18 m/s
 B. 20 m/s
 C. 25 m/s
 D. 15 m/s
40. A bale of clothes weighs 256kg. How many bales can be made from 147456 kg of clothes?
 A. 5760
 B. 57
 C. 576
 D. 5076
41. Work out; $\frac{1}{2} \div \frac{3}{4} \times \frac{4}{5}$
 A. $\frac{8}{15}$
 B. $3\frac{1}{3}$
 C. $\frac{3}{10}$
 D. $\frac{5}{6}$
42. The volume of the box represented below is 1620 cm^3 . What is the width of the box?



- A. 20 cm
 B. 16 cm
 C. 15 cm
 D. 30 cm
43. A trader bought a jacket at sh 1000 and later sold it

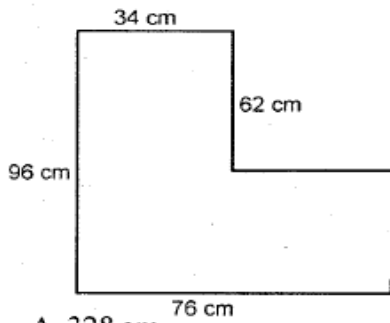
at sh 1200. What percentage profit did he make?

- A. $16\frac{2}{3}\%$
- B. 20%
- C. 10%
- D. 200%

44. The mean of 5 numbers is 39. Four of the numbers are 42, 67, 12 and 23. What is the fifth number?

- A. 51
- B. 41
- C. 38
- D. 37

45. What is the distance round the figure below?



- A. 328 cm
- B. 172 cm
- C. 268 cm
- D. 344 cm

46. What is the sum of 573784 and 127259 rounded off to the nearest ten thousand?

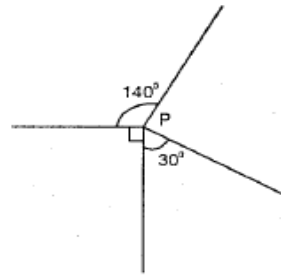
- A. 701043
- B. 701000
- C. 70000
- D. 701040

47. What is the correct order of arranging the fractions

$\frac{5}{8}$, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{1}{8}$ from the largest to the smallest?

- A. $\frac{1}{8}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{4}{5}$
- B. $\frac{4}{5}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{1}{8}$
- C. $\frac{4}{5}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{8}$
- D. $\frac{1}{8}$, $\frac{4}{5}$, $\frac{3}{4}$, $\frac{5}{8}$

48. What is the value of the angle marked P in the figure below?

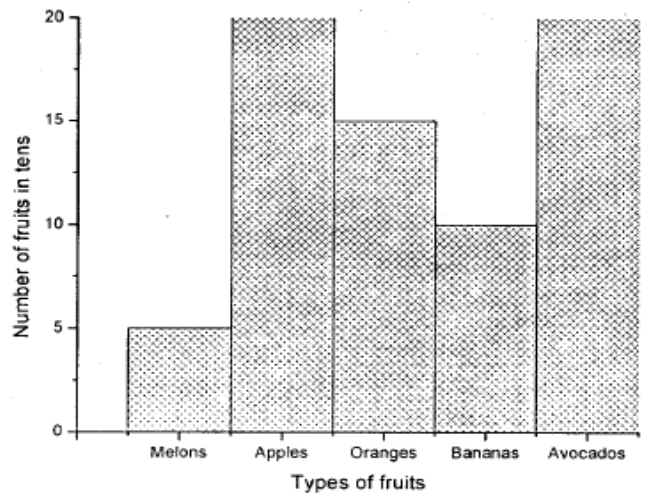


- A. 190°
- B. 100°
- C. 260°
- D. 110°

49. What is the time quarter to four in the afternoon written in the 24-hour clock system?

- A. 1545h
- B. 1504h
- C. 0415h
- D. 1515h

The bar graph below shows the types of fruits sold by a vendor in a day. Use it to answer question 50



50. How many more apples than bananas were sold?

- A. 10
- B. 20
- C. 100
- D. 150