MATHEMATICS STD 8

STANDARD EIGHT 8

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1. What is the place value of digit 9 in the difference between three million, six hundred and eighty two thousand, four hundred and two and one million six hundred and ninety four thousand, six hundred and eighteen.

A. Hundred thousand

- B. Ten thousand
- C. Millions
- D. Thousands

2. Write forty two millions six hundred and eighteen thousand four hundred and two and seven thousandth in figures.

A. 42618402.07

- B. 42680402.007
- C. 42618402.007

D. 42618420.007

3. In a town there were three thousand and thirty men, two thousand five hundred and eighty women. The number of children was twice that of men. How many people altogether were in the town?

A. 5610	B. 11,670
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C 6060 D. 10770

4. What is the least denominator that can be used in the addition of $\frac{3}{4}, \frac{2}{3}$ and $\frac{5}{8}$

A. 32	B. 18

C. 36 D. 24

5. The area of a square plot is 1764m². Poles are planted at intervals of 4m. How much money does a farmer require to fence the plot if one pole cost sh. 220?

A. sh 9240	B. sh 36,960
C. sh. 880	D. sh 168

6. What is the next number in the pattern?

0.6, 0.7, 1.3, 2.0

A. 4.7	B. 3.3
C. 4.2	D. 3.8

7. The figure below holds 24.948 liters. If its diameter is 42cm. What is its height?

Take pi =
$$\frac{22}{7}$$



A. 16cm B. 14cm

C. 12cm D. 18cm

8. What is 36.098 rounded to two decimal places?

A. 36.010	B. 36.1

C. 36.10 D. 36.09

9. In 2004, the number of HIV patients recorded in a certain hospital was 360. After HIV awareness, the patients decreased by 30% in 2005. How many HIV patients were there in		14. A tank has a volume of 6.075m ³ . How many liters of water can it hold when full?	
		A. 607.5	B. 60.75
2005?		C. 6075	D. 0.6075
A. 252 B. 108		15. What is the total value of digit 8 in	alue of digit 8 in
C. 216	D. 300	4386507?	
10. Peter sent his son t the following items	o a supermarket to buy	A. 8000 C. 800 000	B. 800000 D. 80000
2kg sugar @ sh	60.00	16. After increasing the number of animals in	
2-2kg kasuku @ sh 380.00		a farm in the ratio of 5:2, there were 140 animals in the farm. What was the increase?	
2 packets of pig	shori rice @sh 70.00	A. 56	B. 112
2 packets exe f	lour for 220.00	C. 140	D. 84
He gave the shopkeeper sh. 1500. How much should he give the shopkeeper so as to get a balance of sh. 300?		17. What is the total v 8326825 and 4818430	
A. sh 260	B. sh 20	A. Forty thousand	
C. sh. 40	D. sh 140	B. 4000	
11. When 7.156 is divided by 1000, what is the place value of digit 1?		C. Four thousand D. Four thousandth	
A. Tenth	B. Thousandth		properties of
C. Hundredth	D. Ten thousandth	18. The following are properties of quadrilaterals	
12. Ann scored 48% in mathematics and 46% in science. Express the total scores as a decimal		(i) All sides are equal	
		(ii) Diagonals are equa	I
A. 94.0	В. 0.94	(iii) All angles are equa	I
		(iv) Has a pair of parall	el lines
C. 9.4 D. 9.40		(v) Diagonals are perpe	endicular bisectors
13. A circular table of diameter 91cm was decorated all round with flowers placed at intervals of 11cm. How many flowers were used? Take pi = 22/7		(vii) Opposite sides are	equal and parallel
		(vii) The sum of interio	r angles equals 360°
A. 26	B. 13	Which properties are f	or all quadrilaterals?
C. 297	D. 37		

A. v and vii

B. viiC. iii

D. iii and vii

19.What is the value of

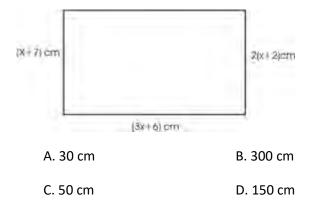
15.675 ÷ 0.015

26.325 ÷ 1.17 (give your answer to 2 decimal places)

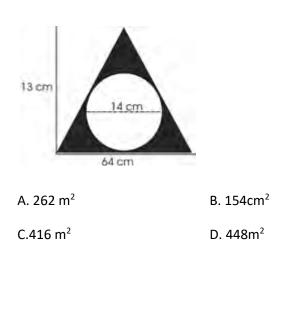
A. 46.44 B. 464.04

C. 464.40 D. 46.45

20. What is the perimeter of the figure below?



21. What is the area of the shaded part in the figure below?



22. What is 0.4 + 0.8 as a fraction?

A. $1\frac{1}{5}$ B. 1.2 C. $1\frac{3}{5}$ D. 3.2

23. An athlete running at an average speed of36km/h covered a certain distance in 7minutes. What distance did he cover?

A. 4.2km B. 21.6km

C. 1.512km D. 15.12km

24. What is the value of?

$$6\frac{1}{2} - \frac{1}{3} \times \frac{1}{4} \div \frac{2}{5}$$

A. $5\frac{7}{8}$ B. $6\frac{7}{24}$
C. $3\frac{7}{30}$ D. $3\frac{41}{48}$

25. Below are the number of students who were admitted into various Kenya public universities in year 2014.

Maseno = 9500

Nairobi = 10250

Jomo Kenyatta = 2500

Egerton = 1250

How many more students were admitted in Nairobi than in both Jomo Kenyatta and Egerton?

A. 26250	B. 5000

C. 2500 D 6500

26. A rectangular plot has a diagonal of39m and a width of 15m. What is its area inAres?

A. 540	B. 548
C. 58.5	D. 5.4

27. What is the simplified form of?

$$\frac{6x + 9 - (2y + 4)}{(4 + 2x) - (7 - 4y)}$$
A.
$$\frac{6x - 2y + 13}{2x - 4y + 3}$$
B.
$$\frac{6x - 2y + 5}{2x + 4y - 3}$$
C.
$$\frac{6x + 2y - 13}{2x + 4y + 3}$$
D.
$$\frac{6x - 2y - 5}{2x - 4y - 3}$$

28. Construct triangle XYZ whereby XY=8cm;ZX=6.5cm and angle ZXY=750. On the triangle ,draw a circle touching the three vertices.What is the measure of the radius?

C. 4.6cm D. 2cm

29. What is the product of faces and vertices of a square prism?

A. 48 B. 40

C. 72 D. 72

30. Two lorries each weighing 3.8 tonnes when empty were each loaded with 320 bags of cement. What was the total mass of the lorries and cement if each bag of cement has a mass of 50kg?

A. 35.8 tonnes

- B. 39.6 tonnes
- C. 32 tonnes

D. 23.6 tonnes

31. Martin a newspaper vendor earns a salary of sh 2800. He is also given a 15% commission on all the papers sold. In one month he sold 200 newspaper at sh 35 each. What was his commission that month?

A. sh 1050

B. sh 3000

C. sh 3850

D. sh 1750

32. Wayne borrowed sh. 50,000 from a bank that charged compound interest at the rate of $12^{0}/_{0}$ p.a. How much did she pay back at the end of 30 months?

- A. sh 15,123.20
- B. B. sh 15,000
- C. sh. 66,483.20
- D. D. sh 65.000

33. Musa thought of a number. Aftersubtracting 5 from its square, he got 139.What number had he thought of?

A. 144	B. 12
C. 139	D. 36

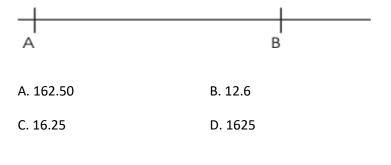
34. What is the value of?

1.5 of 0.25 ÷ 1.5 + 4.5

A. 45.25 B. 4.525

C. 7.5 D. 4.75

35. The line below is drawn to scale 1:250 000. What is the actual distance in kilometers?



36. The pie chart below shows Harriet'smonthly expenditure.



If she spends sh. 750 on transport, how much more does she spend on food than on clothing?

6000

C. sh. 3750 D. sh. 2250

37. The marked price of a refrigerator is sh. 30000. Mary bought it on hire purchase terms, which is 30% more than the marked price. She paid a deposit of sh. 10000 plus ten monthly installments. How much did she pay as installment?

A. sh 900	B. sh 9000

C. sh 9200 D. sh 2900

38.Construct quadrilateral PQRS whereby PQ=8cm and PS=10cm. Angle SPQ=70. Draw the two diagonals to meet at point x. Measure angle SXR.

A. 1030	B. 400
C. 790	D. 760

39. A square of side 12cm has the same area as a triangle with a base of 9cm. What is the height of the triangle?

A. 64cm B. 32cm

C. 24cm D. 16cm

40. What is the volume of the cylinder below in cm³? Take pi= 22/7

7 cm	31.5 cm
A. 9702 cm ³	B.1270.5 cm ³
C. 4851cm ³	D. 1617cm ³
41. January 28th year Which day was March	[•] 2008 was a Monday. • 14th the same year?
A. Friday	B. Tuesday
C. Thursday	D. Wednesday
	ought 4 sacks of beans @ d them at a profit of 33%. price of the 4 sacks.
A. sh 6600	B. sh 26600
C. sh 6650	D. sh 24600
	erest at the rate of 20% nterest had the money
A. sh 6000	
B. sh 12000	
C. sh 114000	
D. sh 144000	

44. After sleeping for 5hrs 55min. Peter woke up at 3.40am. At what time had he gone to bed in 24hrs clock system?

A. 2145hrs	B. 0340hrs
C. 0945hrs	D. 945hrs

45. Eighteen workers working at the same rate were to complete a piece of work in 15days. How much more days would it take if six workers failed to attend?

A. $7\frac{1}{5}$ B. $4\frac{1}{2}$ C. $7\frac{1}{2}$ D. $7\frac{1}{5}$

The following are properties of a quadrilateral.

i. Diagonals bisect each other 90°

ii. Diagonals do not bisect each other at 90°

iii. All sides are equal

iv. Opposite sides are equal and parallel

46. Which properties are for squares only?

A.I, iv B. I, iii

C.I, ii D. I only

47. Mary paid sh. 7600 for a carpet after getting a discount of 20%. What percentage discount would she get if she paid sh. 7220?

A. 24%	B. 28%
/ 1/0	D1 20/0

C. 76% D. 34%

48. The father's age is 10 years older than his son while that of the mother was 5 years younger than the father. If the son is x years. What will be their total age in five years to come?

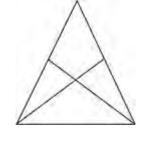
A. 3x - 35	B. 3x + 15
C. 3x + 25	D. 3 x + 30

49. The temperature of a liquid was recorded as 150°C. It was first cooled at the rate of 60° C per min for the first 8 minutes and then heated at the rate of 5°C for the rest of the period. What was its temperature after 15 minutes?

A. 28[°]C B. 68[°]C

C. -295[°]C D. 63[°]C

50. How many triangles are in the figure below?



A. 5 B. 4

C. 8 D. 9