

1 Find the next number in the sequence 23, 20, 17, 14, ...

- A 11.
- B 9.
- C 8.
- D 7.

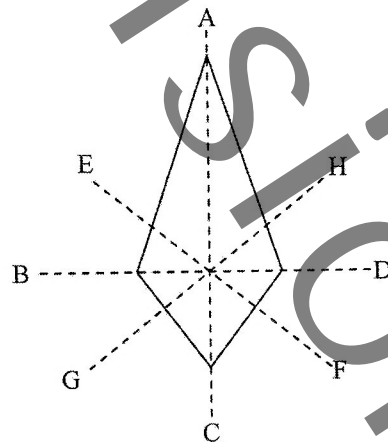
2 Add 251 279 to 384 945.

- A 636 114
- B 636 124
- C 636 214
- D 636 224

3 Express 0.45 as a percentage.

- A 45%
- B 55%
- C 65%
- D 75%

4 Which of the lines on the diagram is a line of symmetry?

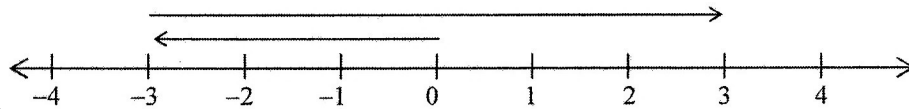


- A GH
- B EF
- C BD
- D AC

5 $823\,146 - 371\,502 =$

- A 451 644
- B 452 644
- C 551 644
- D 552 644

6 The number line below shows ...



- A $-3 + (+5) = +3.$
 B $-3 + (+6) = +3.$
 C $+3 + (-6) = +3.$
 D $+3 + (-5) = +3.$
- 7 In Roman numerals, the number 1 643 can be written as ...
 A MDCXLIV.
 B MCDXLVI.
 C MDCXLIII.
 D MDCLVI.
- 8 The numbers 3, 6, 9, 12, 15, 18, 21 and 24 are multiples of ...
 A 3.
 B 6.
 C 9.
 D 12.
- 9 5^3 can also be written as ...
 A $3 \times 3 \times 3 \times 3 \times 3.$
 B $3 + 3 + 3 + 3 + 3.$
 C $5 + 5 + 5.$
 D $5 \times 5 \times 5.$
- 10 Express the ratio 5kg to 25kg in its lowest terms.
 A 5 to 1
 B 1 to 5
 C 4 to 1
 D 1 to 4
- 11 A company bought 759 pockets of cement in one shop and 456 pockets in another shop. How many pockets of cement did the company buy altogether?
 A 1 215
 B 1 205
 C 1 115
 D 1 105
- 12 $1.41 + 5.97 + 15.048 =$
 A 21.328
 B 21.428
 C 22.328
 D 22.428

- 13 If $24 + x \leq 30$, the value of x is ...
- A $x \leq 6$.
 - B $x \leq 24$.
 - C $x \leq 30$.
 - D $x \leq 54$.
- 14 What is $\frac{4}{5}$ of $\frac{2}{3}$?
- A $\frac{22}{15}$
 - B $\frac{6}{5}$
 - C $\frac{8}{15}$
 - D $\frac{2}{15}$
- 15 Machipisa sold all his goods at a discount of 10%. What was the discount on a dress which he was selling at K800.00?
- A K50.00
 - B K60.00
 - C K70.00
 - D K80.00
- 16 Musonda had 21 eggs in a box. If y eggs are broken and 17 eggs are not. Find the value of y .
- A 3
 - B 4
 - C 17
 - D 38
- 17 Find the Highest Common Factor of 12 and 18.
- A 2
 - B 3
 - C 6
 - D 9
- 18 Find the mode of 14, 10, 10, 7, 8, 14, 16, 19, 10 and 13.
- A 7
 - B 10
 - C 14
 - D 19

19 $3\frac{2}{5} + \frac{1}{5} =$

A $1\frac{2}{5}$

B $1\frac{4}{5}$

C $3\frac{1}{5}$

D $3\frac{3}{5}$

- 20 A bicycle was bought at K750.00 and was later sold at K645.00. Find the loss that was made.

A K1 395.00

B K645.00

C K105.00

D K100.00

- 21 If Set A = {2, 3, 5, 7, 9} and Set B = {1, 2, 3, 5}, list $A \cap B$.

A {2, 3}

B {2, 3, 5}

C {1, 2, 3}

D {1, 2, 3, 5, 7, 9}

- 22 Mutale had \$28. He bought a shirt and a pair of shoes and his change was \$3. How much did he spend?

A \$84

B \$31

C \$28

D \$25

23 $\frac{2}{3} - \frac{1}{8} =$

A $\frac{13}{24}$

B $\frac{15}{24}$

C $\frac{17}{24}$

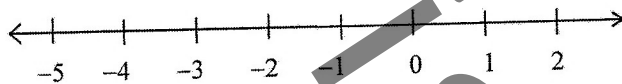
D $\frac{19}{24}$

- 24 A regular polygon with four sides is called a ...
- A trapezium.
 - B square.
 - C rhombus.
 - D parallelogram.

- 25 Matemba bought 16.52kg of beef. Write the mass of beef to one decimal place.
- A 17.0kg
 - B 16.6kg
 - C 16.5kg
 - D 16.0kg

- 26 Find the mean of 90, 80 and 40.
- A 40
 - B 70
 - C 80
 - D 90

- 27 Look at the number line below.



Which of the numbers are greater than -1?

- A 0, 1, 2
 - B -2, -3, -4
 - C -1, 0, 1
 - D -2, -1, 0
- 28 $1211_{\text{five}} + 2344_{\text{five}} =$
- A $4\ 610_{\text{five}}$
 - B $4\ 110_{\text{five}}$
 - C $4\ 000_{\text{five}}$
 - D $1\ 610_{\text{five}}$
- 29 The Lowest Common Multiple of 8, 9 and 12 is ...
- A 72.
 - B 56.
 - C 48.
 - D 24.
- 30 $897 \div 23 =$
- A 1 120
 - B 874
 - C 309
 - D 39

31 Mubita covered a distance of 280km in 4 hours. At what speed was he driving?

- A 70km/h
- B 276km/h
- C 285km/h
- D 1 120 km/h

32 Arrange the Roman numerals below from the smallest to the biggest.

XV, LV, XI

- A LV, XV, XI
- B LV, XI, XV
- C XI, XV, LV
- D XV, XI, LV

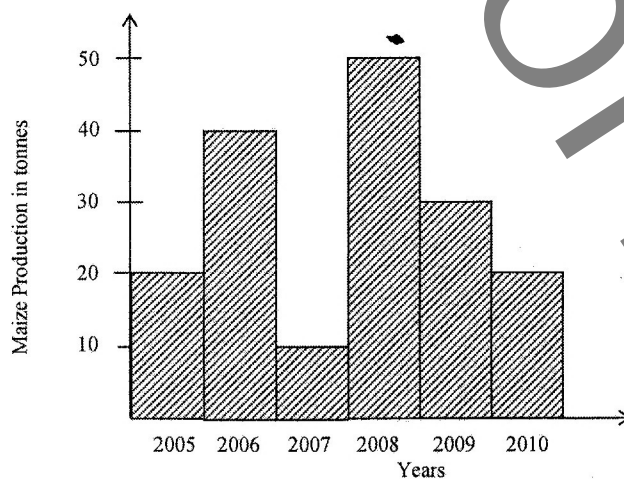
33 Find the volume of a cuboid of length 7cm, breadth 5cm and height 3cm.

- A 35cm^3
- B 36cm^3
- C 95cm^3
- D 105cm^3

34 If 2 shirts cost K150.00, how much will 12 shirts of the same type cost?

- A K900.00
- B K450.00
- C K150.00
- D K75.00

35 The bar chart below shows the production of maize at a farm from 2005 to 2010.



What is the difference between the tonnes of maize produced in 2007 and 2008?

- A 10 tonnes
- B 40 tonnes
- C 50 tonnes
- D 60 tonnes

36 Chipo had K200.00. She bought a dress at K70.00 and shoes at K60.00. How much money did she remain with?

- A K140.00
- B K130.00
- C K70.00
- D K10.00

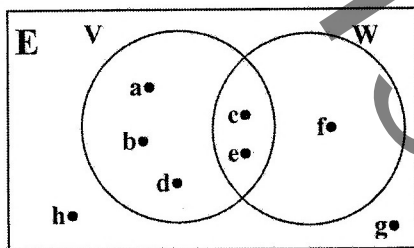
37 Wezi had 40 oranges and he sold $\frac{3}{4}$ of them. How many oranges did he sell?

- A 10
- B 30
- C 60
- D 120

38 $1.97 \times 2.4 =$

- A 472.8
- B 47.28
- C 4.728
- D 0.4728

39 Look at the Venn diagram below.



The set $V \cup W$ is ...

- A {c, e}.
- B {c, e, f}.
- C {a, b, c, d, e, f}.
- D {a, b, c, d, e, f, g, h}.

40 Find 40% of 200.

- A 90
- B 160
- C 500
- D 8 000

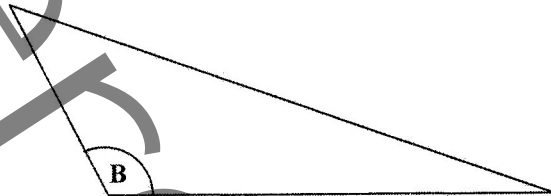
41 An amount of K360.00 was shared among three children in the ratio 2 to 3 to 4. How much was the smallest share?

- A K40.00
- B K80.00
- C K120.00
- D K160.00

42 Convert 102_{five} to base 10.

- A 10
- B 12
- C 17
- D 27

43 The angle marked B in the triangle below is called ...



- A an acute angle.
- B a right angle.
- C an obtuse angle.
- D straight angle.

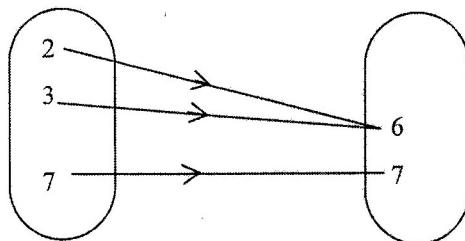
44 $559 \times 63 =$

- A 34 117
- B 34 217
- C 35 117
- D 35 217

45 Express 16% as a decimal.

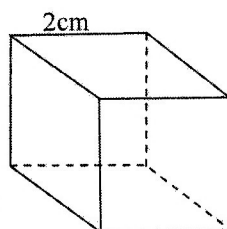
- A 16.0
- B 1.6
- C 0.16
- D 0.016

46 The mapping below is called a ...



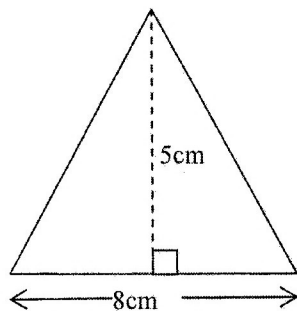
- A one-to-one mapping.
- B one-to-many mapping.
- C many-to-one mapping.
- D many-to-many mapping.

- 47 A farmer planted cabbages in 9 rows. Each row had 108 cabbages. How many cabbages were planted altogether?
- A 972
 - B 117
 - C 99
 - D 12
- 48 $13.5 - 7.82 =$
- A 6.78
 - B 6.68
 - C 5.78
 - D 5.68
- 49 Convert 73 to a base 8 number.
- A 910_{eight}
 - B 112_{eight}
 - C 111_{eight}
 - D 110_{eight}
- 50 How many faces does a cube have?
- A 8
 - B 6
 - C 4
 - D 2
- 51 A chitenge material of length 10.4m is cut into 4 equal pieces. Find the length of each piece.
- A 14.8m
 - B 10.6m
 - C 2.6m
 - D 2.1m
- 52 Find the total length of the edges of the cube below.



- A 32cm
 - B 24cm
 - C 18cm
 - D 16cm
- 53 3 335 to the nearest hundred is ...
- A 3 340.
 - B 3 330.
 - C 3 300.
 - D 3 000.

- 54 Convert \$1 350 to Zambian Kwacha, given that the exchange rate is \$1 = K8.50.
- A K1 341.50
 - B K1 358.50
 - C K10 475.00
 - D K11 475.00
- 55 If 15% of a class of 40 learners go to school by bus, how many learners in the class use a bus?
- A 6
 - B 15
 - C 25
 - D 34
- 56 Calculate simple interest on K20 000.00 invested for 3 years at 5% per annum.
- A K30 000.00
 - B K3 000.00
 - C k300.00
 - D K30.00
- 57 Find the value of 4^2 .
- A 2
 - B 6
 - C 8
 - D 16
- 58 Set B = {a, b, c}. How many subsets does Set B have?
- A 8
 - B 7
 - C 6
 - D 3
- 59 Using $\pi = 3.14$, calculate the area of a circle of radius 4cm.
- A 12.46cm
 - B 12.56cm
 - C 25.12cm
 - D 50.24cm
- 60 Find the area of the triangle below.



- A 40cm^2
- B 20cm^2
- C 13cm^2
- D 10cm^2

STOP! PLEASE CHECK ALL YOUR WORK CAREFULLY