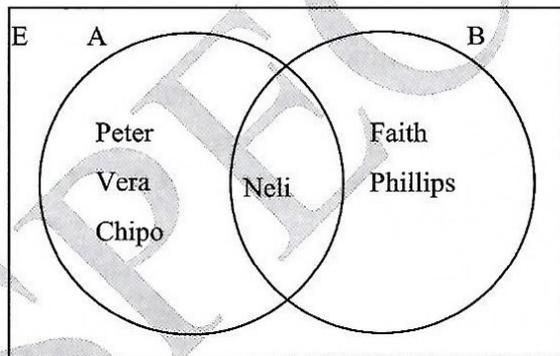


- 1 Add 457 364 to 75 396.  
A 532 760  
B 532 750  
C 522 760  
D 522 750
- 2 In Roman numerals, 75 is the same as ...  
A LXXIII.  
B LXXV.  
C XXXXXXXXV.  
D XXVCV.

- 3 Prime factors of 24 are ...  
A 2 and 3.  
B 2 and 4.  
C 3 and 6.  
D 3 and 8.

- 4  $723\,942 - 351\,671 =$   
A 472 371  
B 472 271  
C 372 371  
D 372 271

- 5 The diagram below shows sets A and B.



List the set  $A \cup B$ .

- A {Neli}  
B {Faith, Phillips}  
C {Peter, Vera, Chipo}  
D {Neli, Faith, Phillips, Peter, Vera, Chipo}
- 6 Mrs Kongole bought 260 bananas. If she sold 102 bananas, how many bananas were not sold?  
A 148  
B 152  
C 158  
D 185

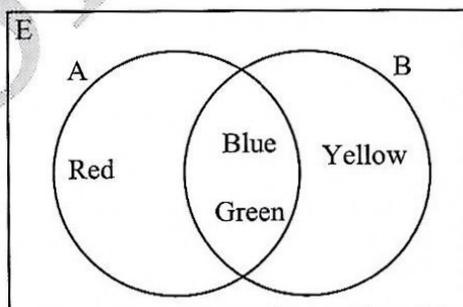
- 7 Mr Kasoka bought 25.75 metres of wire. He cut off 12.25 metres so that he could fence his garden. How many metres of wire remained?
- A 38.70 metres  
 B 38.01 metres  
 C 37.90 metres  
 D 13.50 metres

- 8 The table below shows the favourite fruits of learners in a class.

Fruits	Bananas	Oranges	Lemons	Guavas
Frequency	11	10	5	14

Which fruit is liked most?

- A Orange  
 B Lemon  
 C Guava  
 D Banana
- 9 If 10 is added to  $x$  and the result is 32, what is the value of  $x$ ?
- A 320  
 B 42  
 C 32  
 D 22
- 10 Express the ratio 8 : 16 : 32 in its lowest terms.
- A 1 : 2 : 4  
 B 1 : 2 : 3  
 C 1 : 2 : 2  
 D 1 : 2 : 1
- 11 If a construction company sells a house at \$100 000, how much will 4 houses of the same type cost?
- A \$25 000  
 B \$99 996  
 C \$100 004  
 D \$400 000
- 12 The Venn diagram below shows favourite colours for learners in class A and class B.



The set  $A \cap B$  is ...

- A {Blue, Geen, Red, Yellow}.  
 B {Green, Yellow}.  
 C {Blue, Green}.  
 D {Blue, Red}.

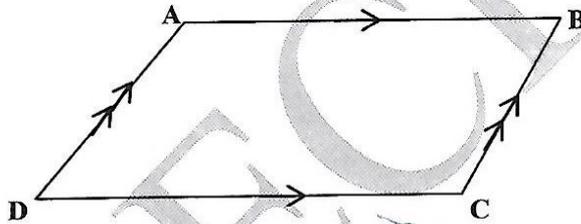
- 13  $61.111 + 200.3 + 0.004 =$   
A 261.415  
B 261.118  
C 63.415  
D 63.118

14 
$$\begin{array}{r} 258 \\ \times 24 \\ \hline \end{array}$$

- A 5 162  
B 5 192  
C 6 162  
D 6 192

- 15 What is the next number in the sequence below?  
400, 200, 100 ...  
A 90  
B 80  
C 60  
D 50

- 16 Look at the diagram below.

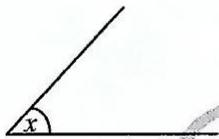


The line parallel to AB is ...

- A AD.  
B BC.  
C DC.  
D AC.
- 17  $286 \div 12 =$   
A 23 remainder 10  
B 23 remainder 6  
C 23 remainder 5  
D 23 remainder 4

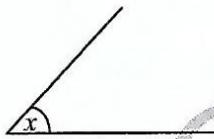
- 18 The mass of a bag of rice was 25.46kg. This mass expressed to 1 decimal place is ...  
A 26.0kg.  
B 25.5kg.  
C 25.4kg.  
D 25.0kg.

- 19 Convert 38 to a number in base five.
- A  $123_{\text{five}}$   
B  $213_{\text{five}}$   
C  $231_{\text{five}}$   
D  $301_{\text{five}}$
- 20 A piece of land was bought at K32 000.00 and sold at K16 000.00. Calculate the loss.
- A K2 000.00  
B K16 000.00  
C K32 000.00  
D K48 000.00
- 21 Arrange the numerals VI, X, XV, IX in order from the smallest to the largest.
- A XV, X, IX, VI  
B IX, VI, X, XV  
C VI, IX, X, XV  
D X, VI, IX, XV
- 22 The angle marked  $x$  below is ...



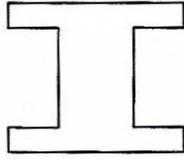
- A an acute angle.  
B an obtuse angle.  
C a right angle.  
D a reflex angle.
- 23 If 9 books cost K54.00, how many books of the same type will cost K96.00?
- A 36  
B 16  
C 14  
D 12
- 24 Convert 0.007 to a common fraction.
- A  $\frac{7}{10}$   
B  $\frac{7}{100}$   
C  $\frac{7}{1\ 000}$   
D  $\frac{7}{10\ 000}$

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 B IX, VI, X, XV  
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- 22 The angle marked  $x$  below is ...



- A an acute angle.  
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 C a right angle.  
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- A  $\frac{7}{10}$   
 B  $\frac{7}{100}$   
 C  $\frac{7}{1\ 000}$   
 D  $\frac{7}{10\ 000}$

- 31 How many lines of symmetry does the shape below have?



- A 0  
B 1  
C 2  
D 4
- 32 Divide  $\frac{1}{9}$  by  $\frac{7}{18}$ .
- A  $\frac{3}{7}$   
B  $\frac{8}{27}$   
C  $\frac{2}{7}$   
D  $\frac{18}{63}$
- 33 If 54 oranges are shared among Peter, Joshua and Moses in the ratio 2 : 3 : 4, how many oranges will Joshua get?
- A 12  
B 18  
C 24  
D 27
- 34 Express 18 as a product of its prime factors.
- A  $1 \times 2 \times 3 \times 3$   
B  $2 \times 3 \times 3$   
C  $2 \times 9$   
D  $3 \times 6$
- 35 Express  $\frac{3}{8}$  as a decimal.
- A 0.360  
B 0.365  
C 0.370  
D 0.375
- 36 Which of the following statements is true about an Isosceles triangle?
- A All angles are equal.  
B All sides are equal.  
C Two angles are equal.  
D Two sides are **not** equal.

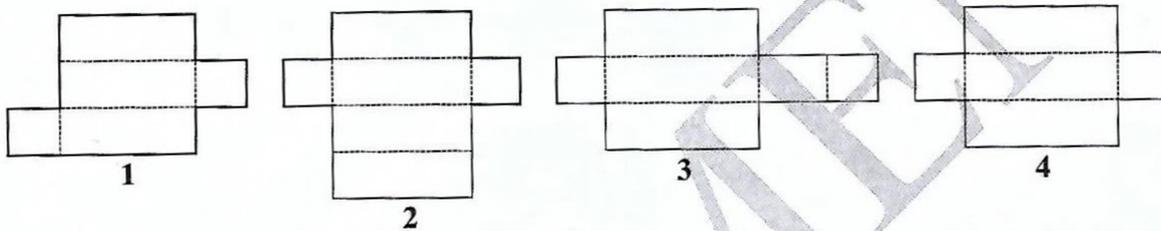
25  $(250 \times 4) \div 5 =$

- A 2 000
- B 500
- C 200
- D 50

26 Find the Lowest Common Multiple of 6, 12 and 18.

- A 36
- B 29
- C 18
- D 12

27 Which one of the following is a net of a cuboid?.



- A 1
- B 2
- C 3
- D 4

28 Mr Zumani got a loan of K5 000.00 at the rate of 8% per annum for 10 years . Find the interest he paid.

- A K400 000.00
- B K40 000.00
- C K4 000.00
- D K400.00

29 Round off 48 573 to the nearest 1000.

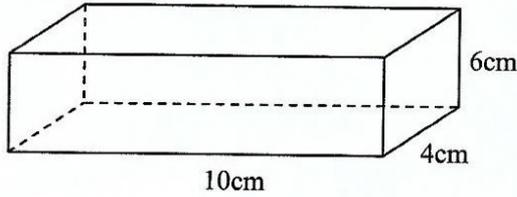
- A 48 000
- B 48 570
- C 48 600
- D 49 000

30 13 boys shared 104 fruits equally. How many fruits did each boy get?

- A 8
- B 18
- C 91
- D 117

- 37 The average mass of 4 children is 20kg. What is their total mass?
- A 5kg
  - B 16kg
  - C 24kg
  - D 80kg

- 38 The diagram below is a cuboid of length 10cm, breadth 4cm and height 6cm.



Calculate the total length of its edges.

- A 70cm
  - B 80cm
  - C 90cm
  - D 100cm
- 39  $\frac{7}{13} \times 65 =$
- A 5
  - B 35
  - C 42
  - D 455
- 40 How many pieces of string each measuring  $2\frac{1}{2}$  metres can be cut from a string of length 20 metres?
- A 8
  - B  $18\frac{1}{2}$
  - C  $22\frac{1}{2}$
  - D 50
- 41 Find 30% of 320.
- A 9 600
  - B 350
  - C 106
  - D 96
- 42 Convert  $\frac{17}{20}$  to a percentage.
- A 85%
  - B 80%
  - C 68%
  - D 60%

- 43 Hamasumo got 28 out of 40 marks in a test, express the marks he got as a percentage.
- A 40%
  - B 50%
  - C 60%
  - D 70%
- 44  $1\frac{2}{5} + 2\frac{1}{4} =$
- A  $3\frac{13}{20}$
  - B  $3\frac{3}{20}$
  - C  $2\frac{8}{20}$
  - D  $2\frac{5}{20}$
- 45 Change  $72_{\text{eight}}$  to base ten.
- A  $72_{\text{ten}}$
  - B  $70_{\text{ten}}$
  - C  $58_{\text{ten}}$
  - D  $54_{\text{ten}}$
- 46 Order the integers below from the largest to the smallest.  
+5, 0, -10, +2, -8
- A +5, +2, 0, -8, -10
  - B -10, +5, 0, +2, -8
  - C +5, +2, 0, -10, -8
  - D -10, -8, +5, +2, 0
- 47 Find  $y$ , given that  $3 + 2y \geq 11$ .
- A  $y \geq 7$
  - B  $y \geq 4$
  - C  $y \leq 7$
  - D  $y \leq 4$
- 48 A motorist travelled a distance of 150km in  $2\frac{1}{2}$  hours. Calculate his speed.
- A 375km/h
  - B 80km/h
  - C 60km/h
  - D 30km/h
- 49  $2 \times 2 \times 2 \times 2 \times 2$  can also be written as ...
- A  $5^2$ .
  - B  $2^5$ .
  - C  $5 \times 2$ .
  - D  $2 \times 5$ .

50 Arrange the following fractions from the biggest to the smallest:

$$\frac{1}{5}, \frac{1}{3}, \frac{7}{3}, \frac{8}{5}$$

A  $\frac{8}{5}, \frac{7}{3}, \frac{1}{3}, \frac{1}{5}$

B  $\frac{1}{5}, \frac{1}{3}, \frac{8}{5}, \frac{7}{3}$

C  $\frac{7}{3}, \frac{8}{5}, \frac{1}{3}, \frac{1}{5}$

D  $\frac{8}{5}, \frac{1}{5}, \frac{7}{3}, \frac{1}{3}$

51 Which of the following statements is correct?

A  $+1 < -2$

B  $-1 > -4$

C  $+5 < -6$

D  $-3 > +2$

52 
$$\begin{array}{r} 3\ 3\ 1\ 1_{\text{five}} \\ -3\ 4\ 1_{\text{five}} \\ \hline \end{array}$$

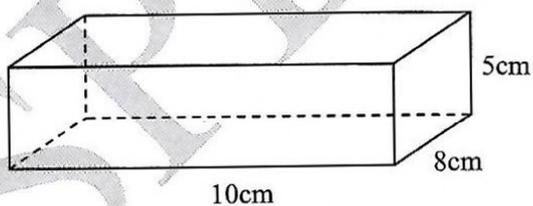
A 4202<sub>five</sub>

B 3652<sub>five</sub>

C 2970<sub>five</sub>

D 2420<sub>five</sub>

53 Calculate the total surface area of the cuboid shown below.



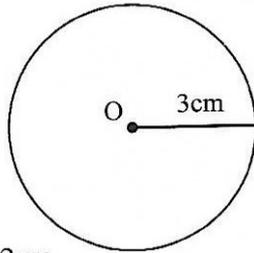
A  $400\text{cm}^2$

B  $340\text{cm}^2$

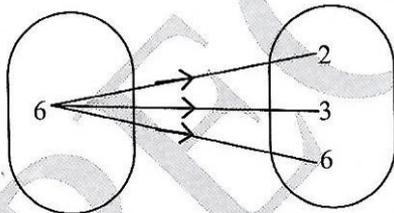
C  $85\text{cm}^2$

D  $80\text{cm}^2$

- 54 Calculate the area of the Circle shown below. [Take  $\pi = 3.14$ ]

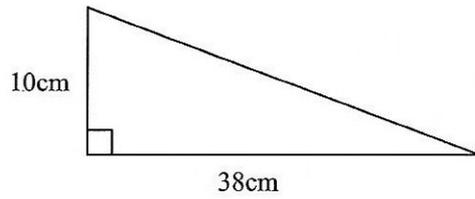


- A 9.42cm  
 B 18.84cm  
 C 27.26cm  
 D 28.26cm
- 55 A book costing K20.00 is sold at K15.00. Find the percentage loss.  
 A 35%  
 B 30%  
 C 25%  
 D 5%
- 56 Find the median of 4, 10, 7, 3 and 6.  
 A 6  
 B 7  
 C 10  
 D 30
- 57 The mapping shown in the diagram below is a ...



- A one-to-one mapping.  
 B one-to-many mapping.  
 C many-to-one mapping.  
 D many-to-many mapping.
- 58 Evaluate  $3^4$ .  
 A 81  
 B 64  
 C 12  
 D 7
- 59 Find the number of subsets of set  $A = \{a, e, i, o, u\}$ .  
 A 5  
 B 10  
 C 25  
 D 32

60 Find the area of the triangle given below.



- A 380 cm<sup>2</sup>
- B 190 cm<sup>2</sup>
- C 48 cm<sup>2</sup>
- D 24 cm<sup>2</sup>

**STOP! PLEASE CHECK ALL YOUR WORK CAREFULLY**