**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** LXXIIIII.
**B** LXXV.
**C** XXXXXXXV.
**D** XXVCV.

**3** Prime factors of 24 are …

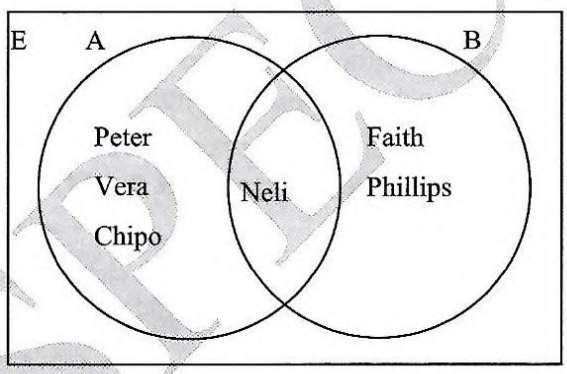
**A** 2 and 3.
**B** 2 and 4.
**C** 3 and 6.
**D** 3 and 8.

**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 ∪ 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.

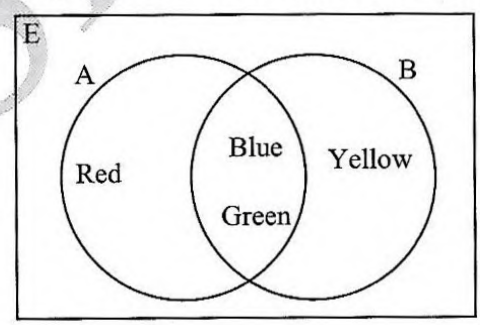
**A** 1: 2: 4
**B** 1: 2: 3
**C** 1: 2: 2
**D** 1 : 2: 1



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

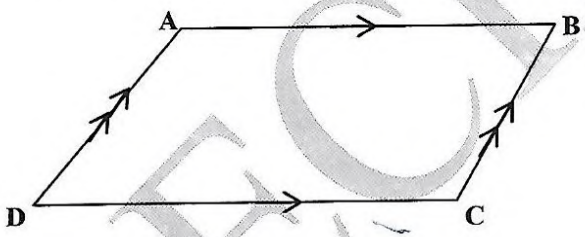
**A** 5 162
**B** 5 192
**C** 6 162
**D** 6 192

**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 $123_{five}$

B $213_{five}$

C $231_{five}$

D $301_{five}$

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.

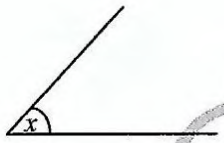
A XV, X, IX, VI

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 $\frac{7}{10\,000}$

19 Convert 38 to a number in base five.

A $123_{five}$

B $213_{five}$

C $231_{five}$

D $301_{five}$

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.

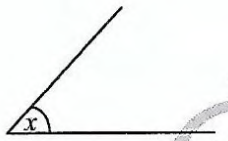
A XV, X, IX, VI

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.

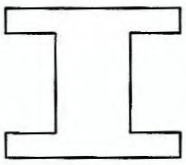
A $\frac{7}{10}$

B $\frac{7}{100}$

C $\frac{7}{1\,000}$

D $\frac{7}{10\,000}$

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.

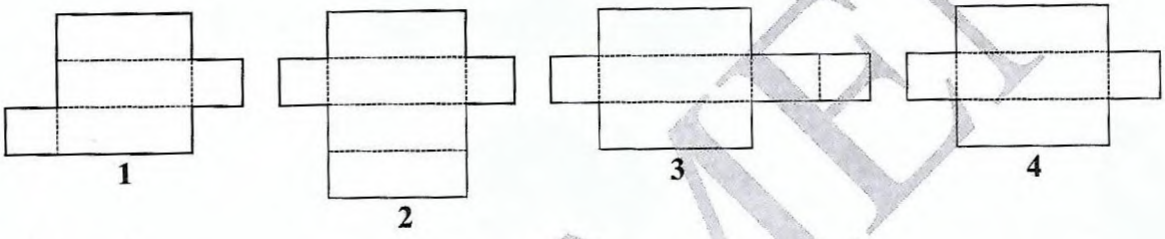
25 $(250 \times 4) \div 5 =$

**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

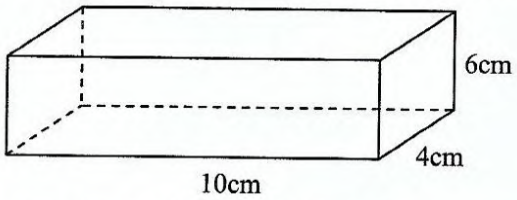
30 13 boys shared 104 fruits equally. How many fruits did each boy get?

**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 $72_{eight}$ to base ten.

**A** $72_{ten}$
**B** $70_{ten}$
**C** $58_{ten}$
**D** $54_{ten}$

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**

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

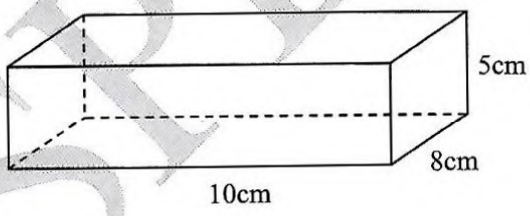
**A** $4202_{\text{five}}$

**B** $3652_{\text{five}}$

**C** $2970_{\text{five}}$

**D** $2420_{\text{five}}$

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



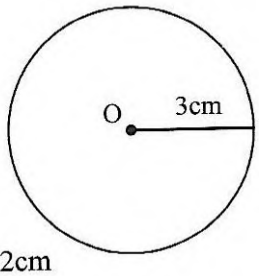

**A** $400cm^2$

**B** $340cm^2$

**C** $85cm^2$

**D** $80cm^2$

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.

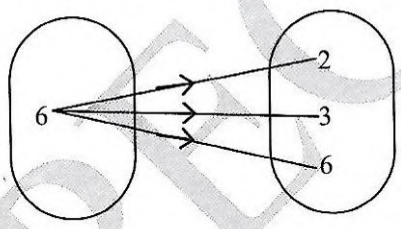
**A** 35%
**B** 30%
**C** 25%
**D** 5%

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.

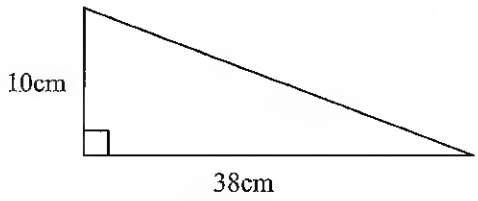
58 Evaluate $3^4$.

**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 $cm^2$
**B** 190 $cm^2$
**C** 48 $cm^2$
**D** 24 $cm^2$

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